

SEQUENCE LISTING

<110> Xu, Jiangchun
 Dillon, Davin C.
 Mitcham, Jennifer L.
 Harlocker, Susan L.
 Jiang, Yuqui
 Henderson, Robert A.
 Kalos, Michael D.
 Fanger, Gary R.
 Retter, Marc W.
 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
 Li, Samuel
 Wang, Aijun
 Skeiky, Yasir A.W.
 Hepler, William

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C23

<140> US

<141> 2001-01-12

<160> 934

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(814)

<223> n = A,T,C or G

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ctagagcggc	cgccaccgcg	gtggagctcc	agcttttggt	cccttttagtg	agggttaatt	420
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attccacaca acatacagagc cggaagcata aagtgtaaag cctgggggtgc ctaatgagtg 540
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tgccagctgc attaatgaat cggccaacgc ncggggaaaa gcggtttgcg ttttgggggc 660
tcttccgctt ctgcgtcact nantcctgcg ctcggtcntt cggctgcggg gaacgggtatc 720
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<210> 2
<211> 816
<212> DNA
<213> Homo sapien

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<222> (1)...(816)
<223> n = A,T,C or G

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aagtttgcag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc 240
acagatgcct gtgtgactcc ggttctgact tttgaggagg ttgttcatca tgatcacaaac 300
aaggaacggg gctcgtttat caccagtggg gagcaggacg tgagcccccg ccctgcacct 360
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gccgccaccg cgggtggagct ccagcttttg ttcccttttag tgagggttaa ttgcgcgctt 480
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aacatacgag ccggaacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn 600
cattaattgc gttgcgctca ctgcccgtt tccagtcggg aaaactgtcg tgccactgcn 660
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tcgctcattg atcctngcnc ccggtcttcg gctgcgngga acggttcaact cctcaaaggc 780
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<210> 3
<211> 773
<212> DNA
<213> Homo sapien

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<220>
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<222> (1)...(773)
<223> n = A,T,C or G

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tcttcaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaagat ttgacaccac 180
tctgccttcg tcttctttgc aaatacatct gcaaacttct tcttcatttc tggccaatca 240
tccatgctca tctgattggg aagttcatca gacttttagt canntccttt gatcagcagc 300
tcgtagaact ggggttctat tgctccaaca gccatgaatt ccccatctgc tgtcctgtaa 360
gtcgtataga aagggtgctc accatccaac atgttctgtc ctcgaggggg gggccgttac 420
ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgtcggt ttacaacgtc 480
gtgactggga aaacctggg cgttaccac ttaatcgct tgcagcacat ccccttttcg 540
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<210> 4
<211> 828
<212> DNA
<213> Homo sapien
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<400> 4

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<210> 5
<211> 834
<212> DNA
<213> Homo sapien
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<400> 5

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attttataac	aatcaacacc	tgtggctttt	aaaatttggt	tttcataaga	taattttatac	180
tgaagtaa	at	ctagccatgc	ttttaaaaaa	tgcttttaggt	cactccaagc	240
acatttgcca	taaacaataa	taaaacaatc	acaattttaat	aaataacaaa	tacaacattg	300
taggccataa	tcatatacag	tataaggaaa	aggtggtagt	gttgagtaag	cagttatttag	360
aatagaatac	cttggcctct	atgcaaatat	gtctagacac	tttgattcac	tcagccctga	420
cattcagttt	tcaaagtagg	agacaggttc	tacagtatca	ttttacagtt	tccaacacat	480
tgaaaacaag	tagaaaatga	tgagttgatt	tttattaatg	cattacatcc	tcaagagtta	540
tcaccaaccc	ctcagttata	aaaaattttc	aagttatat	agtcataata	cttggtgtgc	600
ttattttaaa	ttagtgctaa	atggtattaag	tgaagacaac	aatggtcccc	taatgtgatt	660
gtatttggtc	attttttacca	gcttctaaat	ctnaactttc	aggcttttga	actggaacat	720
tgatnatcacg	tgttccanag	tttccaacct	ctggaacatt	acagtgtgct	tgattcaaaa	780

tggtattttg ttaaaaatta aattttaacc tgggtggaaaa ataatttgaa atna

834

<210> 6
 <211> 818
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

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 aaccacatct acaaaatgcc agtatcaggc ggcggcttcg aagccaaagt gatgtttgga 120
 tgtaaagtga aatattagtt ggcggatgaa gcagatagtg aggaaagttg agccaataat 180
 gacgtgaagt ccgtggaagc ctgtggctac aaaaaatgtt gagccgtaga tgccgtcggg 240
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 taaaattgta ataagcagtg cttgaattat ttggtttcgg ttgttttcta ttagactatg 360
 gtgagctcag gtgattgata ctctgatgac gagtaataacg gatgtgttta ggagtgggac 420
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 ggtaataaat aggattatcc cgtatcgaag gccttttttg acaggtgggtg tgtggtggcc 600
 ttggtatgtg ctttctcgtg ttacatcgcg ccatcattgg tatatggtta gtgtgttggg 660
 ttantangc ctantatgaa gaacttttgg antggaatta aatcaatngc ttggccggaa 720
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 ggaatncnc ccccggaacna ntgnatccct attcttaa 818

<210> 7
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

<400> 7
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 ggtttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcgggtga 180
 aagtggtttg gtttagacgt ccgggaattg catctgtttt taagcctaata gtggggacag 240
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 gtactactcg attgtcaacg tcaaggagtc gcaggtcgcc tggttctagg aataatgggg 360
 gaagtatgta ggaattgaag attaatacgc cgtagtcggg gttctcctag gttcaatacc 420
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 aggatncctt ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangattat 540
 tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan tttngttatt 600
 gaatnttnng gaaaagggct tacaggacta gaaaccaaata angaaaanta atnntaangg 660
 cnttatcntn aaaggnata accnctccta tnatccacc caatngnatt ccccaacnncn 720
 acnattggat nccccanttc canaaanggc cccccccgg tgnannccnc cttttgttcc 780
 cttnantgan gggtattcnc cctngcntt atcancc 818

$\langle 210 \rangle$	10
$\langle 211 \rangle$	789

<212> DNA
<213> Homo sapien

<220>
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<222> (1)...(789)
<223> n = A,T,C or G

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agatcctgcc ctacacactg gcctccctct accaccggga gaagcagggtg ttcttgccca 180
aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttcctgc 240
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ccatcctgga tagtgcttcc tgetgtccca nggtggccca tccctgttta tgggctccat 480
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cccatttact ttgttacaca ggtantattt gacaagaacg anttggccaa atactcagcg 600
ttaaaaaatt ccagcaacat tgggggtgga aggctgcct cactgggtcc aactccccgc 660
tctgttaaac cccatggggc tgccggcttg gccgccaatt tctgtttgctg ccaaantnat 720
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ggngttccc 789

<210> 11
<211> 772
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

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accaacaggc cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc 180
tgtgggctga ggggacctgg ttcttgtgtg ttgcccctca ggactcttcc cctacaaata 240
actttcatat gttcaaatcc catggaggag tgtttcatcc tagaaactcc catgcaagag 300
ctacattaaa cgaagctgca ggttaagggg cttanagatg ggaaaccagg tgactgagtt 360
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ctgagcctgg gtaatccacc tgcagagtec cgcattcca gtgcatgga cccttctggc 480
ctccctgtat aagtccagac tgaaaccccc ttggaaggnc tccagtcagg cagccctana 540
aactggggaa aaaagaaaag gacgccccan ccccagctg tgcanctacg cacctcaaca 600
gcacagggtg gcagcaaaaa aaccacttta ctttggcaca aacaaaaact ngggggggca 660
accccgccac cccnangggg gttaacagga ancngggnaa cntggaaccc aattnaggca 720
ggcccnccac ccnaatntt gctgggaaat ttttctccc ctaaattntt tc 772

<210> 12
<211> 751
<212> DNA
<213> Homo sapien

<400> 12

<210> 13

<211> 729

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (729)$

<223> n = A, T, C or G

<400> 13

<210> 14

<211> 816

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (816)$

<223> n = A, T, C or G

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ggcaggtcca cgcagtgcc tttgtcactg gggaaatgga tgcgtggag ctgctcaaag      180
ccactcgtgt atttttcaca ggcagcctcg tccgacgcgt cggggcagtt gggggtgtct      240
tcacactcca ggaaactgtc natgcagcag ccattgctgc agcggaactg ggtgggctga      300
cangtgccag agcacaactgg atggcgctt tccatgnnan gggccctgng ggaaagtccc      360
tganccccan anctgcctct caaangcccc accttgacac ccccgacagg ctagaatgga      420
atcttcttcc cgaaaggtag ttnttcttgt tgcccaancc anccccntaa acaaactctt      480
gcanatctgc tccgnggggg tcntantacc ancggtggaa aagaacccca ggcngcgaac      540
caancttggt tggatncgaa gcnataatct nctnttctgc ttggtggaca gcaccantna      600
ctgtnnanct ttagnccntg gtccctcntgg gttgnncttg aacctaatcn ccnntcaact      660
gggacaaggt aantngccnt cctttnaatt cccnanentn cccctggtt tggggttttn      720
cncnctccta ccccgaaan nccgtgttcc ccccaacta ggggcnaaa ccnntnttc      780
cacaaccctn cccacccac gggttcngnt ggttng      816

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<210> 15
<211> 783
<212> DNA
<213> Homo sapien

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<220>
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<223> n = A,T,C or G

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aagaccmeta ccaggtggaa ctgtggggac tcaaggaang cacctacctg ttccagctga      180
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ccatggaaag gcgcatcca ntgttctctg gcacctgtca gcccaccag ttccgctgca      540
ncaatggctg ctgcatcnac antttcctng aattgtgaca acacccccca ntgcccccaa      600
ccctcccaac aaagcttccc tgttnaaaaa tacnccantt ggcttttnac aaacnccogg      660
cncctcctt ttccccntn aacaaagggc nctngcnttt gaactgccn aaccnnggaa      720
tctnccnngg aaaaantncc cccctggtt cctnnaancc cctcncnaa anctncccc      780
ccc

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<210> 16
<211> 801
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

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<400> 16

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ttggctgtgt tggtagcgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg      180
aagtaggggt agtcctcaaa atccgtatag ttggtgaagc cacagcactt gagccctttc      240
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ggcactacca gcaacgtcag gaagtgtcga gccattgtgg tgtacaccaa ggcgaccaca      360
gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgagggca      420
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ccngctgcga atgaaagaaa ntacccacgt tgacaaactg catggccact ggacgacagt      540
tggcccgaan atcttcagaa aagggtatgcc ccacgattg aacacccana tgcccactgc      600
cnacaggggt gcncncncn gaaagaatga gccattgaag aaggatcnc ntggtcttaa      660
tgaactgaaa ccntgcatgg tggcccctgt tcagggctct tggcagtga ttctganaaa      720
aaggaacngc ntnagcccc ccaaangana aaacaccccc ggggtgttgc ctgaattggc      780
ggccaaggan cctgccccn g                                     801

```

```

<210> 17
<211> 740
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

```

```

<400> 17
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agccaccatg cagtgccttc gcttcattaa gaccatgatg atcctcttca atttgcctcat      180
ctttctgtgt ggtgcagccc tgttggcagt gggcatctgg gtgtcaatcg atggggcatc      240
ctttctgaag atcttggggc cactgtcgtc cagtgccatg cagtttgtca acgtgggcta      300
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taagacggag agcaagtgtg ccctcgtgac gttctctctc atcctcctcc tcatcttcat      420
tgctgaagtt gcagctgctg tggtcgcctt ggtgtacacc acaatggctg aaccattcct      480
gacgttgctg gtantgcctg ccatcaanaa agattatggg ttcccaggaa aaattcactc      540
aantntggaa caccnccatg aaaagggctc caatttctgn tggcttcccc aactataccg      600
gaattttgaa agantcncct tacttccaaa aaaaaanant tgcttttnc cccnttctgt      660
tgcaatgaaa acntcccaan aongccaatn aaaacctgcc cnnncaaaaa ggntcncaaa      720
caaaaaaant nnaagggttn                                     740

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<210> 18
<211> 802
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

```

```

<400> 18
ccgctgggtt cgctgggtcca gngnagccac gaagcacgtc agcatacaca gcctcaatca      60
caaggtcttc cagctgccgc acattacgca gggcaagagc ctccagcaac actgcatatg      120
ggatacactt tacttttagc gccaggggtg caactgagag gtgtcgaagc ttattcttct      180

```

```

gagcctctgt tagtggagga agattccggg cttcagctaa gtagtcagcg tatgtcccat 240
aagcaaacac tgtgagcagc cggaaggtag aggcaaagtc actctcagcc agctctctaa 300
cattgggcat gtccagcagt tctccaaaca cgtagacacc agnggcctcc agcacctgat 360
ggatgagtgt ggccagcgt gcccccttgg ccgacttggc taggagcaga aattgtctct 420
ggttctgccc tgtcaccttc acttccgcac tcatcactgc actgagtgtg ggggacttgg 480
gctcaggatg tccagagacg tggttccgcc ccctcnctta atgacaccgn ccanncaacc 540
gtcggctccc gccgantgng ttcgtcgtnc ctgggtcagg gtctgctggc cnetacttgc 600
aancttcgtc nggccatgg aattcacenc accggaactn gtangatcca ctntttctat 660
aaccggnccg caccgcnntt ggaactccac tctnttnc tttacttgag ggtaaaggtc 720
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tnccancnc atangaagcc ng 802

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<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

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<400> 19
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cntgacccca actcccncc nncantgca gtgatgagt cagaactgaa ggtnacgtgg 180
caggaaccaa gancaaannc tgctccnntc caagtcggcn nagggggcgg ggctggccac 240
gncatccnt cnagtgtgn aaagcccn cctgtctact tgtttggaga acngcnnga 300
catgcccagn gttanataac nggcnagag tnantttgcc tctccctcc ggetgcgcac 360
cgngtntgct tagnggacat aacctgacta cttaactgaa ccnngaatac tncnccct 420
ccactaagct cagaacaaaa aacttcgaca ccactcantt gtcacctgnc tgctcaagta 480
aagtgtacct catncccaat gtntgctnga ngctctgncc tgcnttangt tcggtcctgg 540
gaagacctat caattnaagc tatgtttctg actgcctctt gctccctgna acaancnacc 600
cnnnntcca agggggggnc ggcccccaat ccccccaacc ntnaattnan tttancccn 660
ccccnggcc cggcctttta cnanctcnn nnacngggna aaaccnnngc tttncccaac 720
nnaatccnc t 731

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<210> 20
<211> 754
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

```

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<400> 20
tttttttttt tttttttttt taaaaacccc ctccattnaa tgnaaacttc cgaaattgtc 60
caacccccctc ntccaaatnn cntttccgg gnggggggttc caaacccaan ttanntttgg 120
annttaaat aaatnttntt tggnggnna anccnaatgt nangaaagtt naaccanta 180
tnancttnaa tncctggaaa ccngtngntt ccaaaaatnt ttaaccctta antccctccg 240
aaatngttna nggaaaaccc aanttctcnt aaggttgttt gaaggntnaa tnaaaanccc 300
nnccaattgt ttttngccac gcctgaatta attggnntcc gntgttttcc nttaaaanaa 360

```

```

ggnnancccc ggttantnaa tccccccnnc cccaattata ccganttttt ttngaattgg      420
gancccnccg gaattaacgg ggnnnntccc tnttgggggg cnggnncccc ccccntcggg      480
ggttngggnc aggnccnaat tgtttaaggg tccgaaaaat ccctccnaga aaaaaanctc      540
ccaggntgag nntnngggttt nccccccccc cangggccct ctcgnanagt tggggtttgg      600
ggggcctggg attttntttc cccntttnc tccccccccc ccnggganag aggttngngt      660
tttgntcnnc ggccccnccn aaganctttt ccganttnan ttaaattccnt gcctnngcga      720
agtcctttgn agggntaaan ggccccctnn cggg      754

```

```

<210> 21
<211> 755
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

```

```

<400> 21
atcancccat gaccccnac nngggaccnc tcanccggnc nnncnacnc cggccnatca      60
nngtnagnnc actncnnttn natcacnccc cncnactac gcccncnanc cnaecgncta      120
nncanatncc actganngcg cgangtngan ngagaaanct nataccanag ncaccanacn      180
ccagctgtcc nanaangcct nnnatacnng nnnatccaat ntgnancctc cnaagtattn      240
nncnncanat gattttcctn anccgattac cctnccccc tancccccctc cccccaacna      300
cgaaggcnct ggncocnaagg nngcgnccnc ccgctagntc cccnncaagt cncncnccta      360
aactcanccn nattaacncc ttcntgagta tcaactcccc aatctcacc tactcaactc      420
aaaaanatch gatacaaaat aatncaagcc tgnttatnac actntgactg ggtctctatt      480
ttagnngtcc ntnaanctc ctaatacttc cagtctncct tcnccaattt ccnaanggct      540
ctttcngaca gcatnttttg gttcccnntt ggggttcttan ngaattgcc ttcntngaac      600
gggctcntct ttcccttcgg ttancctggg ttcnccggc cagttattat ttcccntttt      660
aaattcntnc cntttanttt tggcnttcna aacccccggc cttgaaaacg gccccctggt      720
aaaaggttgt tttganaaaa tttttgtttt gttcc      755

```

```

<210> 22
<211> 849
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

```

```

<400> 22
tttttttttt tttttangtg tngtcgtgca ggtagaggct tactacaant gtgaanacgt      60
acgctnggan taangcgacc cgantttctag gannccccc aaaatcanac tgtgaagatn      120
atcctgnnna cggaanggtc accggnngat nntgctaggg tgncnctcc cannncttn      180
cataactcng nggccctgcc caccaccttc ggcgcccnng ngncggggcc cgggtcattn      240
gnnttaacn cactnngcna ncggtttccn nccccnncg acccnggcga tccggggtn      300
tctgtcttcc cctgnagncn anaaantggg ccncggnccc ctttaccct nnacaagcca      360
cngcctteta nccnngccc cccctccant nngggggact gccnanngct ccgttntctg      420
nnaccccnnn gggtnccctg gttgtcgant cnaccgnang ccanggatc cnaaggaagg      480
tgcgtnnttg gccctaccc ttcgctnccg nncaccctc ccgacnanga nccgctccc      540
cncnncgnng cctnccctc caacaccgc nctcntngt nccggnnccc cccacccgc      600

```

```

nccctcncnc ngncgnanncn ctcncncnc gtctcannca ccaccccgcc ccgccaggcc 660
ntcanccacn ggnngacnng nagnncnntc gncccgcgcn gcgncncct cgcncngaa 720
ctnctcngg ccantnncgc tcaanccnna cnaaacgccg ctgcgcggcc cgnagegncc 780
ncctccnnga gtccctccgn ctcccnaccc angnnttcn cgaggacacn nnaccccgcc 840
nncangcgg 849

```

```

<210> 23
<211> 872
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(872)
<223> n = A,T,C or G

```

```

<400> 23
gcgcacaaacta tacttcgctc gnactcgtgc gcctcgtcnc tcttttcctc cgcaaccatg 60
tctgaacnanc ccgattnggc ngatatcnan aagntcganc agtccaaact gantaacaca 120
cacacnncan aganaaatcc nctgccttcc anagtanacn attgaacnng agaaccangc 180
nggcgaatcg taatnaggcg tgcgcgccca atntgtcncc gtttattntn ccagctcnc 240
ctnccnacc cactcttcn nagctgtcnn acccctngtn cgnacccccc naggtcggga 300
tcgggtttnn nntgaccgng cnnccctcc cccctccat nacganccnc ccgcaccacc 360
nanngcncgc ncccggnct ctgcgcnc cctgtcctntn cccctgtngc ctggcncngn 420
accgcattga cctcgcgcnn ctncnngaaa ncgnanacgt ccgggttggn annancgctg 480
tggnnnngcg tctgcncgc gtccctccn ncnncttcca ccatcttct tacngggtct 540
ccnccgctc tcnncacnc cctgggacgc tntcctntgc ccccttnac tccccctt 600
cgnctgncc cgncccccacc ntcatttnca nacgntcttc acaannncc ggntnctcc 660
cnancngnnc gtcancnag ggaaggngg ggnccnntg nttgacgttg ngngangtc 720
cgaanantcc tcnccntcan cncaccct cgggcgnct ctngttnc aacttancaa 780
ntctccccc ngngcncntc tcagcctcnc cnccccnct ctctgcantg tncctgtc 840
tnaccnntac gantnttcn cncctctt cc 872

```

```

<210> 24
<211> 815
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

```

```

<400> 24
gcatgcaagc ttgagtattc tatagngtca cctaaatanc ttggcntaat catggtcnta 60
nctgncttcc tgtgtcaaata gtatacnaa tanatatgaa tctnatntga caaganngta 120
tctnctatta gtaacaantg tntgtccat cctgtcngan canattccca tnnattncgn 180
cgcatcncn gncantatn taatngggaa ntcnnntnn ncacnncat ctatcncnc 240
gcncctgac tggagagat ggatnanttc tntntgacc nacatgttca tcttggttn 300
aanaccccc cgcngnccac cgggtngng cnagcncnt ccaagacct ctgtggagg 360
aacctgcgtc aganncatca aacntgggaa accgcncnc angtnnaagt ngnnncanan 420
gateccgtcc aggnntnacc atcccttnc agcgcacct ttngtgcct anagnnagc 480
gtgtccnanc cncatcaat ganacgcgc agnccancc caattnggca caatgtcgc 540
gaaccccta gggggantna tncaaancc caggattgtc cncncangaa atccncanc 600

```



```

ccnccctac ccncttttgg gacngtgacc aantcccga gtnccagtc ggcngnctc 660
ccccaccggt nncntgggg ggggtgaanct cngnntcanc cngncgaggn ntcgnaagga 720
accggncctn ggncgaanng ancnntcnga agngccnct cgtataaccc cccctcncca 780
nccnacngnt agntcccccc cnggggtncgg aangg 815

```

```

<210> 25
<211> 775
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

```

```

<400> 25
ccgagatgtc tcgctccgtg gccttagctg tgctcgcgct actctctctt tctggcctgg 60
aggctatcca gcgtactcca aagattcagg ttactcacg tcatccagca gagaatggaa 120
agtcaaattt cctgaattgc tatgtgtctg ggtttcatcc atccgacatt gaanttgact 180
tactgaagaa tgganagaga attgaaaaag tggagcatcc agacttgctt ttcagcaagg 240
actggtcttt ctatctcntg tactacactg aattcacccc cactgaaaaa gatgagtatg 300
cctgcctgtg gaaccatgtg actttgtcac agcccaagat agttaagtgg gatcgagaca 360
tgtaagcagn cnnatggaa gtttgaagat gccgcatttg gattggatga attccaaatt 420
ctgcttgctt genttttaat antgatatgc ntatacacc taccctttat gnccccaat 480
tgtaggggtt acatnantgt tcnctnnga catgatcttc ctttataant ccnccnttcg 540
aattgcccgt cncncngttn ngaatgtttc cnaaaccacg gttggctccc ccaggtcncc 600
tcttacggaa gggcctgggc cnccttncaa ggttggggga accnaaaatt tcnctntgc 660
ccncccncca cnnctctgng nncncanttt ggaacccttc cnattccctt tggcctcnna 720
nccttnncta anaaaacttn aaanogtngc naaanntttn acttcccccc ttacc 775

```

```

<210> 26
<211> 820
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

```

```

<400> 26
anattantac agtgtaatct tttcccagag gtgtgtanag ggaacggggc ctagaggcat 60
cccanagata ncttatanca acagtgcctt gaccaagagc tgctgggcac atttcctgca 120
gaaaaggtgg cggcccccat cactcctcct ctcccatagc catcccagag gggtagtag 180
ccatcangcc ttcggtgagg gggagtcang gaaacaacan accacagagc anacagacca 240
ntgatgacca tgggcgggag cgagcctctt cctgnaccg ggggtggcana nganagccta 300
nctgaggggt cacactataa acgttaacga ccnagatnan cacctgcttc aagtgcaccc 360
ttcctacctg acnaccagng accnnaact gongcctggg gacagcnctg ggancagcta 420
acnnagcact cacctgcccc cccatggcgg tncgntccc tggctcctgnc aagggaagct 480
ccctgttgga attncgggga naccaaggga nccccctcct ccantgtga aggaaaaann 540
gatggaattt tnccttccg gccnntccc tcttccttta cagccccct nntactcntc 600
tccctctntt ntctgncnc acttttnacc ccnnnatttc ccttnattga tcggannctn 660
ganattccac tncgcctnc cntcnatng naanacnaaa nactntctna ccnggggat 720
gggnncctcg ntcactctct ctttttctct accnccnntt ctttgctct ccttngatca 780

```

tccaacntc gntggcctn ccccccnnn tcctttcccc

820

<210> 27
 <211> 818
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

<400> 27
 tctgggtgat ggcctcttcc tcctcagga cctctgactg ctctgggcca aagaatctct 60
 tgtttcttct ccgagcccca ggcagcggg attcagccct gcccaacctg attctgatga 120
 ctgcggtatg tgtgacggac ccaaggggca aataggggtcc cagggtccag ggagggggcgc 180
 ctgctgagca ctcccgcccc tcaccctgcc cagccctgc catgagctct gggctgggtc 240
 tccgcctcca gggttctgct ctccangca ngccancaag tggcgtggg ccacactggc 300
 ttcttctgct cccntccctg gctctganc tctgtcttcc tgtcctgtgc angcnccttg 360
 gatctcagtt tccctcctc anngaactct gttctgann tcttcantta actntgantt 420
 tatnaccnan tggnetgtnc tgtcnaactt taatgggcn gaccggctaa tccctccctc 480
 nctcccttcc anttcnnna accngcttnc cntctctcc cntancccg ccnggggaanc 540
 ctcccttgcc ctnaccangg gccnnnaccg cccntnnctn ggggggcnng gtnnctnnc 600
 ctgntnnccc cncctcnnt tncctcgtcc cnnncnngen nngcannttc nengteccnn 660
 tnnctcttcn ngntcognaa ngntcnctn tnnnnngnen ngntnntnctn tccctctcnc 720
 cnnntgnang tntttnnnnc ncngnncccc nnnncnnnnn nggnntnnn tctnncngc 780
 cccnncccc ngnattaagg cctccttct ccggccnc 818

<210> 28
 <211> 731
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(731)
 <223> n = A,T,C or G

<400> 28
 aggaagggcg gagggatatt gtangggatt gagggatagg agnataangg gggaggtgtg 60
 tccaacatg anggtgnngt tctcttttga angaggggtg ngtttttann ccnggtgggt 120
 gattnaacct cattgtatgg agnnaaagg ttttagggat ttttcggctc ttatcagtat 180
 ntanattcct gtnaatcgga aaatnatntt tcnnenggaa aatnttgctc ccatccgnaa 240
 attnctcccg gtagtgcat nttngggggn cngccangtt tcccaggctg ctanaatcgt 300
 actaaagntt naagtggan tncaaatgaa aacctnnac agagnatccn taccgactg 360
 tnnnttncct tcgccctntg actctgcnn agcccaatac ccnngngnat gtcnccngn 420
 nnnngcncnc tgaaannnc tcgnggctnn gancatcang gggtttcgca tcaaaagcnn 480
 cgtttcncat naaggcactt tngcctcct caaccnctng cctcnncca tttngccgtc 540
 nggttncct acgctnntng cncctnnntn ganattttnc ccgctnggg naancctcct 600
 gnaatgggta gggnccttnc ttttnaccnn gnggtntact aatcnnctnc acgctnctt 660
 tctnaccct ccccttttt caatcccanc ggcnatagg gtctccccnn cgangggggg 720
 nnnccannc c 731

<210> 29

<211> 822
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(822)
 <223> n = A,T,C or G

<400> 29
 actagtccag tgtgggtggaa ttccattgtg ttgggggncnc ttctatgant antnttagat 60
 cgctcanacc tcacancctc ccnacnango ctataangaa nannaataga nctgtncnnt 120
 atntntacnc tcatanncct cnnnaccac tccctcttaa ccctactgt gcctatngcn 180
 tnnctantct ntgcgcctn cnanccaccn gtggggcncac cncnngnatt ctcnatctcc 240
 tcnccatntn gcctananta ngtncatacc ctatacctac nccaatgcta nnnctaancn 300
 tccatnantt annntaacta ccactgacnt ngactttcnc atnanctcct aatttgaatc 360
 tactctgact cccacngcct annnattagc ancntcccc nacnatntct caaccaaatc 420
 ntcaacaacc tatctanctg ttcnccaacc nttncctcog atccccnnac aacccccctc 480
 ccaaataccc nccacctgac ncctaaccn caccatcccg gcaagccnan ggncatttan 540
 ccactggaat cacnatngga naaaaaaac ccnaactctc tancncnnat ctccctaana 600
 aatnctcctn naatttactn ncantnccat caancccaen tgaaacnnaa cccctgtttt 660
 tanatccctt ctttcgaaaa ccnacccttt annncccaac ctttngggcc ccccnctnc 720
 ccnaatgaag gncncccaat cnangaaacg nccntgaaaa ancnaaggcna anannntccg 780
 canatcctat cccttanttn ggggnccctt nccnngggcc cc 822

<210> 30
 <211> 787
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(787)
 <223> n = A,T,C or G

<400> 30
 cggccgcctg ctctggcaca tgccctcctga atggcatcaa aagtgatgga ctgcccattg 60
 ctagagaaga ccttctctcc tactgtcatt atggagccct gcagactgag ggctcccctt 120
 gtctgcagga tttgatgtct gaagtcgtgg agtgtggctt ggagctcctc atctacatna 180
 gctggaagcc ctggagggcc tctctcgcca gcctccccct tctctccacg ctctccangg 240
 acaccagggg ctccaggcag cccattatct ccagnangac atgggtgtttc tccacgcgga 300
 cccatggggc ctgnaaggcc aggggtctct ttgacaccat ctctcccgtc ctgacctggca 360
 ggccgtggga tccactantt ctanaacggn cgccaccncg gtgggagctc cagcttttgt 420
 tccnttaat gaaggttaat tgcncgcttg gcgtaatcat nggtcanaac tntttcctgt 480
 gtgaaattgt ttntcccctc ncnattccnc ncnacatacn aaccgggaan cataaagtgt 540
 taaagcctgg gggtngcctn nngaataaac tnaactcaat taattgcgtt ggctcatggc 600
 ccgctttccn ttcnngaaaa ctgtentccc ctgcnttntt gaatcggcc ccccnnggg 660
 aaaagcggtt tgcnttttng ggggntcctt ccncttcccc cctcnctaan cccctncgctt 720
 cggtcgttnc nggtngcggg gaangggnat nnnctccnc naagggggng agnnngntat 780
 ccccaaa 787

<210> 31
 <211> 799
 <212> DNA

<400> 33

<210> 34

<211> 756

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (756)$

<223> n = A, T, C or G

<400> 34

gcccgcgaccg	gcattgtacga	gcaactcaag	ggcgagtgga	accgtaaaag	ccccaattctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagttc	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tggcccgtag	catactggag	180
atcgggggccc	aatggagcat	cctacgcaan	gacatccctt	ccttcgagcg	ctacatggcc	240
cagctcaaatt	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttg	gctcaacct	cctcttctctg	ctgtcccaga	accgggtggc	tgantnccac	360
acgganttg	ancggctgcc	tgcccaanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtcctgga	gcaatactga	tgganggcag	ctaccncaa	gtnttccttg	ccnagggtaa	480
catccccgc	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcagggatg	540
aaaatcgcn	ggttgctcca	gaaaggctnc	aanaanatcc	ttttcnctga	agggcccg	600
atncnctagt	ntagaatcg	gcccgcacatc	gcggtgganc	ctccaacctt	ctgttncct	660
ttactgagg	tttattggcg	cccttggcgt	tatcatggtc	acnccngttn	cctgtgttga	720
aattnttaac	ccccacaaat	tccacgcena	catnng			756

<210> 35

<211> 834

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (834)$

<223> n = A,T,C or G

<400> 35

ggggatctct	anatcnacct	gnatgcatgg	ttgtcggtgt	ggtcgctgtc	gatgaanatg	60
aacaggatct	tgcccttgaa	gctctcggct	gctgtnttta	agttgctcag	tctgccgtca	120
tagtcagaca	cnetcttggg	caaaaaacan	caggatntga	gtcttgattt	cacctccaat	180
aatcttcngg	gctgtctgct	cgggtgaactc	gatgaenang	ggcagctggg	tgtgtntgat	240
aaantccanc	angttctcct	tggtgacctc	cccttcaaag	ttgttcggc	cttcatcaaa	300
cttctnnaan	angannancc	canctttgtc	gagctggnat	ttgganaaca	cgctactgtt	360
ggaaactgat	cccaaattgg	atgtcatcca	tcgcctctgc	tgccctgcaa	aaacttgctt	420
ggcncaaate	cgactccccn	tccttgaaag	aagccnatca	cacccccctc	cctggactcc	480
nncaangact	ctnccgctnc	cccntccnng	cagggttggt	ggcannccgg	gcccntgcgc	540
ttcttcagcc	agttcacnat	nttcatcagc	ccctctgcc	gctgtntat	tccttggggg	600
ggaanccgtc	tctcccttcc	tgaannaaact	ttgaccgtng	gaatagccgc	gcntcnccnt	660
acntnctggg	cggggttcaa	antccctccn	ttgncnntcn	cctcggggcca	ttctggattt	720
nccnaacttt	ttccttcccc	cncnccnccg	ngtttggnnt	tttcatnggg	ccccaactct	780
gctnttggcc	antccctggg	gggcntntan	cncnccctnt	ggtcccntng	ggcc	834

<210> 36

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 36

cggncgcttt	cnngccgcgc	cccggtttcca	tgacnaaggc	tccttccang	ttaaatacnn	60
cctagnaaac	attaatgggt	tgctctacta	atacatcata	cnaaccagta	agcctgcca	120
naacgccaac	tcaggccatt	cctaccaaag	gaagaaaggc	tggtctctcc	acccccgtga	180
ggaaaggcct	gccttgtaag	acaccacaat	ncggctgaat	ctnaagtctt	gtgttttact	240
aatggaaaaa	aaaaataaac	aanaggtttt	gttctcatgg	ctgcccaccg	cagcctggca	300
ctaaaacanc	ccagcgetca	cttctgcttg	ganaaatatt	ctttgctctt	ttggacatca	360
ggcttgatgg	tatcactgcc	acntttccac	ccagctgggc	ncccttcccc	catntttgtc	420
antganctgg	aaggcctgaa	ncttagtctc	caaaagtctc	ngcccacaag	accggccacc	480
agggggangtc	ntttncagtg	gatctgcca	anantaccn	tatcatcnnt	gaataaaaag	540
gcccctgaac	ganatgcttc	cancanccct	taagacccat	aatcctngaa	ccatggtgcc	600
cttcgggtct	gatccnaaag	gaatgttcc	gggtcccant	ccctcctttg	ttnccttacgt	660
tgtnttggac	centgctngn	atnacccaan	tganatcccc	ngaagcacc	tncccctggc	720
atgtganntt	cntaaattct	ctgccctacn	netgaaagca	cnattccctn	ggcnccnaan	780
ggngaactca	agaaggtctn	ngaaaaacca	cncn			814

<210> 37

<211> 760

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(760)

<223> n = A,T,C or G

```

<400> 37
gcatgtctgct cttcctcaaa gttgttcttg ttgccataac aaccaccata ggtaaagcgg      60
gcgcagtgtt cgctgaagg gttgtagtac cagcgcggga tgctctcctt gcagagtcct      120
gtgtctggca ggtccacgca atgccctttg tcaactggga aatggatgcg ctggagctcg      180
tcnaanccac tcgtgtatatt ttacangca gccctctccg aagcntccgg gcagttgggg      240
gtgtcgtcac actccactaa actgtcgatn cancagccca ttgctgcagc ggaactgggt      300
gggctgacag gtgccagaac acaactggatn ggcctttcca tggaagggcc tgggggaaat      360
cncctnancc caaactgcct ctcaaaggcc accttgacac ccccgacagg ctagaaatgc      420
actcttcttc ccaaaggtag ttgttcttgt tgcccaagca ncctccanca aacccaaaanc      480
ttgcaaaatc tgctccgtgg gggtcatnnn taccanggtt ggggaaanaa acccggcngn      540
gancncctt gtttgaatgc naaggnaata atoctcctgt cttgcttggg tggaanagca      600
caattgaact gttaacnttg ggcgngttc cncnnggtg gtctgaaact aatcaccgtc      660
actggaaaaa ggtangtgcc ttcttgaat tcccaaannt cccctngntt tgggtntttt      720
ctcctctncc ctaaaaatcg tnttcccccc ccntangggc      760

```

```

<210> 38
<211> 724
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

```

```

<400> 38
tttttttttt tttttttttt tttttttttt tttttaaaaa cccctcccat tgaatgaaaa      60
cttcnnaaat tgtccaaccc cctcnccaa atnnccattt cggggggggg gttccaaacc      120
caaattaatt ttgganttta aattaaatnt tnattngggg aanaanccaa atgtnaagaa      180
aatttaaccc attatnaact taaatncctn gaaaccntg gnttccaaaa atttttaacc      240
cttaaatccc tccgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggt      300
ngatttaaac ccccttnant tnttttnacc cnnngctnaa ntatttngnt tccggtgttt      360
tcctnttaan cntnggtaac tcccgntaat gaannncctt aanccaatta aaccgaattt      420
tttttgaatt ggaaattccn ngggaattna cgggggtttt tcccntttgg gggccatncc      480
ccncttttcg ggggttgggn ntaggttgaa tttttnnang nccccaaaaa ncccccaana      540
aaaaaactcc caagnnttaa ttngaanttc ccccttccca ggccttttgg gaaaggnggg      600
ttnttggggg ccngggantt cnttcccccn ttncncccc ccccccnggt aaanggttat      660
ngnntttggt ttttgggccc cttnanggac cttccggatn gaaattaaat ccccggnccg      720
gccg      724

```

```

<210> 39
<211> 751
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

```

```

<400> 39
tttttttttt tttttctttg ctcacattta atttttatnt tgattttttt taatgctgca      60
caacacaata tttatttcat ttgtttcttt tatttcattt tatttgtttg ctgctgctgt      120
tttatttatt tttactgaaa gtgagaggga acttttgttg ctttttttcc tttttctgta      180

```

```
<210> 40
<211> 753
<212> DNA
<213> Homo sapien
```

[illegible]

```
<210> 41
<211> 341
<212> DNA
<213> Homo sapien
```

```
<210> 42
<211> 101
<212> DNA
<213> Homo sapien
```


<400> 42
 acttactgaa tttagttctg tgctcttcct tatttagtgt tgtatcataa atactttgat 60
 gtttcaaaca ttctaaataa ataattttca gtggcttcat a 101

<210> 43
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 43
 acatctttgt tacagtctaa gatgtgttct taaatcacca ttccttcctg gtcctcaccc 60
 tccagggtgg tctcacactg taattagagc tattgaggag tctttacagc aaattaagat 120
 tcagatgcct tgctaagtct agagttctag agttatgttt cagaaagtct aagaaaccca 180
 cctcttgaga ggtcagtaaa gaggacttaa tatttcatat ctacaaaatg accacaggat 240
 tggatacaga acgagagtta tcctggataa ctcagagctg agtacctgcc cgggggccgc 300
 tcgaa 305

<210> 44
 <211> 852
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(852)
 <223> n = A,T,C or G

<400> 44
 acataaatat cagagaaaag tagtctttga aatattttacg tccaggagtt ctttgtttct 60
 gattatttgg tgtgtgtttt ggtttgtgtc caaagtattg gcagcttcag ttttcatttt 120
 ctctccatcc tcgggcattc ttcccaaatt tatataccag tcttcgtcca tccacacgct 180
 ccagaatttc tttttttag tagtatctca tagctcggct gagcttttca taggtcatgc 240
 tgctgttggt cttcttttta ccccatagct gagccactgc ctctgatttc aagaacctga 300
 agacgccctc agatcgggtct tcccatttta ttaatcctgg gttcttgtct gggttcaaga 360
 ggatgtcgcg gatgaattcc cataagttag tccctctcgg gttgtgcttt ttgggtgtggc 420
 acttggcagg ggggtcttgc tcctttttca tatcagggtga ctctgcaaca ggaaggtgac 480
 tggtggttgt catggagatc tgagcccggc agaaagtatt gctgtccaac aaatctactg 540
 tgctaccata gttggtgtca tataaatagt tctngtcttt ccagggtgtc atgatggaag 600
 gctcagtttg ttcagtcctg acaatgacat tgtgtgtgga ctggaacagg tcaactactgc 660
 actggccgtt ccacttcaga tgctgcaagt tgctgtagag gagntgcccc gccgtccctg 720
 ccgcccgggt gaactcctgc aaactcatgc tgcaaagggt ctcgccgttg atgtcgaact 780
 cntggaaagg gatacaattg gcatccagct ggttggtgtc caggaggtga tggagccact 840
 cccacacctg gt 852

<210> 45
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 45
 acaacagacc cttgctcgtc aacgacctca tgctcatcaa gttggacgaa tccgtgtccg 60
 agtctgacac catccggagc atcagcattg ctctgcagtg ccctaccgcg gggaaactctt 120
 gcctcgtttc tggctggggt ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg 180
 tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgaccgc ctgt 234

<210> 46
 <211> 590
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(590)
 <223> n = A,T,C or G

<400> 46
 acttttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atgggtgtgta 60
 atttgatagc aatatttttg agattacaga gtttttagtaa ttaccaatta cacagttaaa 120
 aagaagataa tatattccaa gcanatacaa aatatctaata gaaagatcaa ggcaggaaaa 180
 tgantataac taattgacaa tggaaaatca attttaatgt gaattgcaca ttatccttta 240
 aaagctttca aaanaaanaa ttattgcagt ctanttaatt caaacagtgt taaatgggtat 300
 caggataaan aactgaaggg canaaagaat taattttcac ttcattgtaac ncacccanat 360
 ttacaatggc ttaaattgcan ggaaaaagca gtggaagtag ggaagtantc aagggtctttc 420
 tggctctctaa tctgccttac tctttgggtg tggctttgat cctctggaga cagctgccag 480
 ggctcctggt atattccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct 540
 gccttccttt gaggagactt catctcactg gccaacactc agtcacatgt 590

<210> 47
 <211> 774
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(774)
 <223> n = A,T,C or G

<400> 47
 acaagggggc ataatgaagg agtgggggana gatttttaaag aaggaaaaaa aacgaggccc 60
 tgaacagaat tttcctgnac aacgggggctt caaaataatt ttcttgggga ggttcaagac 120
 gcttcactgc ttgaaactta aatggatgtg ggacanaatt ttctgtaatg accctgaggg 180
 cattacagac gggactcttg gaggaaggat aaacagaaaag gggacaaaag ctaatcccaa 240
 aacatcaaag aaaggaagggt ggogtcatac ctcccagcct acacagttct ccagggtctt 300
 cctcatccct ggaggacgac agtggaggaa caactgacca tgtcccagc ctctgtgtgtg 360
 ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgctgat cctgcgtggc 420
 ccacactcct tgaacacaca tcccaggtt atattcctgg acatggctga acctcctatt 480
 cctacttccg agatgccttg ctccctgcag cctgtcaaaa tcccactcac cctccaaacc 540
 acggcatggg aagcctttct gacttgctg attactccag catcttgga caatccctga 600
 ttcccactc cttagaggca agataggggtg gttaagagta gggctggacc acttgagacc 660
 aggctgctgg cttcaaattt tggctcattt acgagctatg ggaccttggg caagtnatct 720
 tcacttctat gggentcatt ttgttctacc tgcaaaatgg gggataataa tagt 774

<210> 48
 <211> 124
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(124)
 <223> n = A,T,C or G

<400> 48
 canaaattga aattttataa aaaggcattt ttctottata tccataaaat gatataattt 60
 ttgcaantat anaaatgtgt cataaattat aatgttcott aattacagct caacgcaact 120
 tggt 124

<210> 49
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 49
 gccgatgcta ctattttatt gcaggaggtg ggggtgtttt tattattctc tcaacagctt 60
 tgtggctaca ggtgggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120
 ttagggcacc catatcccaa gcantgt 147

<210> 50
 <211> 107
 <212> DNA
 <213> Homo sapien

<400> 50
 acattaaatt aataaaaagga ctgttggggt tctgctaaaa cacatggctt gatatatattgc 60
 atggtttgag gttaggagga gttaggcata tgttttgga gaggggt 107

<210> 51
 <211> 204
 <212> DNA
 <213> Homo sapien

<400> 51
 gtcctaggaa gtctagggga cacacgactc tggggtcacg gggccgacac acttgcacgg 60
 cggaaggaa aggagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag 120
 gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgcc cacttgcca 180
 cctccctttt ggaccagca atgt 204

<210> 52
 <211> 491
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(491)
 <223> n = A,T,C or G

<400> 52

acaaagataa	catttatctt	ataacaaaaa	tttgatagtt	ttaaaggtta	gtattgtgta	60
gggtattttc	caaaagacta	aagagataac	tcaggtaaaa	agttagaaat	gtataaaaaca	120
ccatcagaca	ggttttttaa	aaacaacata	ttacaaaatt	agacaatcat	ccttaaaaaa	180
aaaacttctt	gtatcaattt	cttttggtca	aaatgactga	cttaantatt	tttaaattatt	240
tcanaaacac	ttcctcaaaa	attttcaana	tggtagcttt	canatgtnc	ctcagtccca	300
atgttgctca	gataaataaa	tctcgtgaga	acttaccacc	caccacaagc	tttctggggc	360
atgcaacagt	gtcttttctt	tnctttttct	tttttttttt	ttacaggcac	agaaactcat	420
caattttatt	tggataacaa	agggtctcca	aatttatattg	aaaaataaat	ccaagttaat	480
atcactcttg	t					491

<210> 53

<211> 484

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(484)

<223> n = A,T,C or G

<400> 53

acataattta	gcagggctaa	ttaccataag	atgctattta	ttaanaggtn	tatgatctga	60
gtattaacag	ttgctgaagt	ttggtatttt	tatgcagcat	tttctttttg	ctttgataac	120
actacagaac	ccttaaggac	actgaaaatt	agtaagtaaa	gttcagaaac	attagctgct	180
caatcaaata	tctacataac	actatagtaa	ttaaaacggt	aaaaaaaaag	gttgaaatct	240
gcactagtat	anaccgctcc	tgtcaggata	anactgcttt	ggaacagaaa	gggaaaaanc	300
agctttgant	ttctttgtgc	tgatangagg	aaaggctgaa	ttaccttggt	gcctctccct	360
aatgattggc	aggctcnggta	aatnccaaaa	catattccaa	ctcaacactt	cttttccncc	420
tancttgant	ctgtgtattc	caggancagg	cggatggaat	gggccagccc	ncggatgttc	480
cant						484

<210> 54

<211> 151

<212> DNA

<213> Homo sapien

<400> 54

actaaacctc	gtgcttggtga	actccatata	gaaaacgggtg	ccatccctga	acacggctgg	60
ccactgggta	tactgctgac	aacogcaaca	acaaaaacac	aaatccttgg	cactggctag	120
tctatgtcct	ctcaagtgcc	tttttgtttg	t			151

<210> 55

<211> 91

<212> DNA

<213> Homo sapien

<400> 55

acctggcttg	tctccgggtg	gttcccggcg	ccccccacgg	tccccagaac	ggacactttc	60
gccctccagt	ggatactcga	gccaaagtgg	t			91

<210> 56

<211> 133

<212> DNA

<213> Homo sapien

<400> 56

```
ggcggatgtg cgttggttat atacaaatat gtcattttat gtaagggact tgagtatact 60
tggatttttg gtatctgtgg gttgggggga cgggccagga accaatacc catggatacc 120
aagggacaac tgt 133
```

<210> 57

<211> 147

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(147)

<223> n = A,T,C or G

<400> 57

```
actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtggcgc 60
gactgggagc tgagcccttc cctttgcgcc tgcctcagag gattgttgcc gacntgcana 120
tctcantggg ctggatncat gcagggt 147
```

<210> 58

<211> 198

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(198)

<223> n = A,T,C or G

<400> 58

```
acagggatat aggtttnaag ttattgtnat tgtaaaatac attgaatttt ctgtatactc 60
tgattacata catttatcct ttaaaaaaga tgtaaatctt aatttttatg ccatctatta 120
atttaccaat gagttacctt gtaaatgaga agtcatgata gactgaatt ttaactagtt 180
ttgacttcta agtttggg 198
```

<210> 59

<211> 330

<212> DNA

<213> Homo sapien

<400> 59

```
acaacaaatg ggttgtagg aagtcttata agcaaaactg gtgatggcta ctgaaaagat 60
ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaactc actcaatttt 120
cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa 180
tacagtcaat aaatgacaaa gccagggcct acaggtgggt tccagacttt ccagaccag 240
cagaaggaat ctattttatc acatggatct ccgctctgtgc tcaaaatacc taatgatatt 300
tttcgtcttt attggacttc tttgaagagt 330
```

<210> 60

<211> 175

<212> DNA

<213> Homo sapien

<400> 60

```
accgtgggtg ccttctacat tcttgacggc tccttcacca acatctggtt ctacttcggc 60
gtcgtgggtt ccttcctctt catctcctc cagctgggtg tgctcatcga ctttgcgcac 120
tcctggaacc agcgtgggtt gggcaaggcc gaggagtgcg attcccgtgc ctggt 175
```

<210> 61

<211> 154

<212> DNA

<213> Homo sapien

<400> 61

```
acccactttt tctcctgtg agcagtcttg acttctcact gctacatgat gaggtgagt 60
ggttggtgct cttcaacagt atcctccctt ttcoggatct gctgagccgg acagcagtgc 120
tggactgcac agccccgggg ctccacattg ctgt 154
```

<210> 62

<211> 30

<212> DNA

<213> Homo sapien

<400> 62

```
cgctcgagcc ctatagttag tcgtattaga 30
```

<210> 63

<211> 89

<212> DNA

<213> Homo sapien

<400> 63

```
acaagtcatt tcagcaccct ttgctcttca aaactgacca tcttttatat ttaatgcttc 60
ctgtatgaat aaaaatggtt atgtcaagt 89
```

<210> 64

<211> 97

<212> DNA

<213> Homo sapien

<400> 64

```
accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag 60
aatcagtgc tccaggattg gtccttggat ctggggg 97
```

<210> 65

<211> 377

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(377)

<223> n = A,T,C or G

<400> 65

```

acaacaanaa ntcccttctt taggccactg atggaaacct ggaaccccct tttgatggca      60
gcatggcgctc ctaggccttg acacagcggc tggggtttgg gctntcccaa accgcacacc      120
ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcaggg      180
tcggtcataa natgaaatcc caanggggac agaggtcagt agaggaagct caatgagaaa      240
ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaaccgc      300
tgggggtgaa ctaccccan gaggaatcat gcctgggcga tgcaanggtg ccaacaggag      360
gggcgggagg agcatgt                                     377

```

```

<210> 66
<211> 305
<212> DNA
<213> Homo sapien

```

```

<400> 66
acgcctttcc ctcagaattc agggaagaga ctgtcgctg ccttcctccg ttgttgctg      60
agaaccogtg tgcccttcc caccatatcc accctcgctc catctttgaa ctcaaacacg      120
aggaactaac tgcacctgg tcctctcccc agtccccagt tcacctcca tccctcacct      180
tcctccactc taagggatat caacactgcc cagcacaggg gccctgaatt tatgtggttt      240
ttatatattt ttttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac      300
tgttt                                     305

```

```

<210> 67
<211> 385
<212> DNA
<213> Homo sapien

```

```

<400> 67
actacacaca ctccacttgc ccttgtgaga cactttgtcc cagcacttta ggaatgctga      60
ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcagg      120
cccttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc      180
tgtgctgtgc tggagattca cttttgagag agttctctc tgagacctga tctttagagg      240
ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg      300
cctctcccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgccatac      360
catagtttct gtgctagtgg accgt                                     385

```

```

<210> 68
<211> 73
<212> DNA
<213> Homo sapien

```

```

<400> 68
acttaaccag atatattttt accccagatg gggatattct ttgtaaaaaa tgaaaataaa      60
gtttttttta tgg                                     73

```

```

<210> 69
<211> 536
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(536)
<223> n = A,T,C or G

```

<400> 69
 actagtccag tgtggtggaa ttccattgtg ttggggggctc tcaccctcct ctccctgcagc 60
 tccagctttg tgctctgcct ctgaggagac catggcccag catctgagta ccctgctgct 120
 cctgctggcc accctagctg tggccctggc ctggagcccc aaggaggagg ataggataat 180
 cccgggtggc atctataacg cagacctcaa tgatgagtgg gtacagcgtg cccttcactt 240
 cgccatcagc gagtataaca aggccaccaa agatgactac tacagacgtc cgctgcgggt 300
 actaagagcc aggcaacaga ccgttggggg ggtgaattac ttcttcgacg tagagggtgg 360
 ccgaaccata tgtaccaagt ccagcccaa cttggacacc tgtgccttcc atgaacagcc 420
 agaactgcag aagaaacagt tgtgctcttt cgagatctac gaagtccct ggggagaaca 480
 gaangtcctt gggtgaaatc caggtgtcaa gaaatcctan ggatctgttg ccaggc 536

<210> 70
 <211> 477
 <212> DNA
 <213> Homo sapien

<400> 70
 atgacccta acagggggccc tctcagccct cctaattgacc tccggcctag ccatgtgatt 60
 tcaattccac tccataacgc tcctcatact aggctacta accaacaacac taaccatata 120
 ccaatgatgg cgcgatgtaa cagcagaaag cacataccaa ggccaccaca caccacctgt 180
 ccaaaaaggc cttcgatagc ggataatcct atttattacc tcagaagttt ttttcttcgc 240
 agggattttt ctgagccttt taccactcca gctagcccc taccceccaa ctaggagggc 300
 actggccccc aacaggcatc accccgctaa atcccctaga agtcccactc ctaaacaacat 360
 ccgtattact cgcattcagga gtatcaatca cctgagctca ccatagtcta atagaaaaca 420
 accgaaacca aattattcaa agcactgctt attacaattt tactgggtct ctatttt 477

<210> 71
 <211> 533
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(533)
 <223> n = A,T,C or G

<400> 71
 agagctatag gtacagtgtg atctcagctt tgcaaacaca ttttctacat agatagtact 60
 aggtattaat agatatgtaa agaaagaaat cacaccatta ataatggtaa gattggttta 120
 tgtgatttta gtggtatttt tggcaccctt atatatgttt tccaaacttt cagcagtgat 180
 attatttcca taacttaaaa agtgagtttg aaaaagaaaa tctccagcaa gcatctcatt 240
 taaataaagg tttgtcatct ttaaaaatac agcaatatgt gactttttta aaaagctgtc 300
 aaataggtgt gaccctacta ataattatta gaaatacatt taaaaacatc gagtacctca 360
 agtcagtttg ccttgaaaaa tatcaaatat aactcttaga gaaatgtaca taaaagaatg 420
 cttcgtaatt ttggagtang aggttccctc ctcaattttg tattttttaa aagtacatgg 480
 taaaaaaaaa aattcacaaac agtatataag gctgtaaaat gaagaattct gcc 533

<210> 72
 <211> 511
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(511)

<223> n = A,T,C or G

<400> 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcggtgta	60
aaatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattgggtgc	tgganatcgc	cgtggctatt	cctcattgtt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

<210> 73

<211> 499

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(499)

<223> n = A,T,C or G

<400> 73

cagtgccagc	actggtgcc	gtaccagtac	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtggc	ttcagtgctg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttggg	ggagctgggtg	ccagcaccag	tggcagctct	ggtgctgtg	gtttctccta	180
caagtggat	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aatctatttg	ccatttctga	aaaaaaaaaa	aaaaaaaggg	cggccgctcg	360
antctagagg	gcccgtttta	acccgctgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgcccctcc	cccgntgcct	tccttgacct	tgaaagtg	caactcccact	480
gtcctttcct	aantaaaat					499

<210> 74

<211> 537

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(537)

<223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaattt	ggattcagcc	gcgaagagat	60
ttatcagctt	aactcagata	aaatcattga	aagtaataag	gtaaaagcta	gtctctaact	120
tccaggccca	cggctcaagt	gaatttgaat	actgcattta	cagtgtagag	taacacataa	180
cattgtatgc	atggaaacat	ggaggaacag	tattacagtg	tcctaccact	ctaatacaaga	240
aaagaattac	agactctgat	tctacagtga	tgattgaatt	ctaaaaatgg	taatcattag	300
ggcttttgat	ttataaanact	ttgggtactt	atactaaatt	atggtagtta	tactgccttc	360
cagtttgctt	gatataattg	ttgatattaa	gattccttgac	ttatattttg	aatgggttct	420
actgaaaaan	gaatgatata	ttcttgaaga	catcgatata	catttattta	caactcttgat	480

tctacaatgt agaaaatgaa ggaaatgccc caaattgtat ggtgataaaa gtcccgt 537

<210> 75
 <211> 467
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(467)
 <223> n = A,T,C or G

<400> 75
 caaanacaat tgttcaaaaag atgcaaatga tacactactg ctgcagctca caaacacctc 60
 tgcataattac acgtacctcc tctgtctcct caagtagtgt ggtctatatt gccatcatca 120
 cctgtctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg 180
 tggcacaagg aggccatctt ttctcatcgc gttattgtcc ctagaagcgt cttctgagga 240
 tctagtggg ctttctttct gggtttgggc catttcantt ctcatgtgtg tactattcta 300
 tcattattgt ataacggttt tcaaaccngt gggcacncag agaacctcac tctgtaataa 360
 caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc 420
 ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn 467

<210> 76
 <211> 400
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(400)
 <223> n = A,T,C or G

<400> 76
 aagctgacag cattcggggc gagatgtctc gctccgtggc cttagctgtg ctgcgcctac 60
 tctctctttc tggcctggag gctatccagc gtactccaaa gattcagggt tactcacgtc 120
 atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg ttcatccat 180
 ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag 240
 acttgtcttt cagcaaggac tggcttttct atctcttgta ctacactgaa ttcaccccca 300
 ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng 360
 ttnagtggga tcganacatg taagcagcan catgggaggt 400

<210> 77
 <211> 248
 <212> DNA
 <213> Homo sapien

<400> 77
 ctggagtgcc ttggtgtttc aagccctgc aggaagcaga atgcaccttc tgaggcacct 60
 ccagctgccc cggcggggga tgcgaggctc ggagcacctc tgcccggctg tgattgtctc 120
 caggcactgt tcatctcagc ttttctgtcc ctttgcctcc ggcaagcgt tctgtgaaa 180
 gttcataatc ggagcctgat gtcttaacga ataaaggtcc catgctccac ccgaaaaaaa 240
 aaaaaaaa 248

<210> 78

<211> 201
 <212> DNA
 <213> Homo sapien

<400> 78
 actagtcag tgtggtggaa ttccattgtg ttgggcccac cacaatggct acctttaaca 60
 tcacccagac cccgccctgc ccgtgcccc aacgacagta tgatgcttac 120
 tctgctactc ggaaactatt tttatgtaat taatgtatgc tttcttgttt ataaatgcct 180
 gatttaaaaa aaaaaaaaaa a 201

<210> 79
 <211> 552
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(552)
 <223> n = A,T,C or G

<400> 79
 tccttttgtt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg 60
 tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt 120
 cctctttcct ctgaagatta atgaagttga aaattgaggt ggataaatac aaaaaggtag 180
 tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt 240
 atgcaagtta gtaattactc agggttaact aaattacttt aatatgctgt tgaacctact 300
 ctgttccttg gctagaaaaa attataaaca ggactttgtt agtttgggaa gccaaattga 360
 taatattcta tgttctaataa gttgggctat acataaanta tnaagaaata tggaatttta 420
 ttcccaggaa tatgggggttc atttatgaat antaccggg anagaagttt tgantnaaac 480
 cngtttttgt taatacgtaa atatgtcctn aatnaacaag gcntgactta tttccaaaaa 540
 aaaaaaaaaa aa 552

<210> 80
 <211> 476
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(476)
 <223> n = A,T,C or G

<400> 80
 acagggattt gagatgctaa ggccccagag atcgtttgat ccaaccctct tattttcaga 60
 ggggaaaatg gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct 120
 cacacagact cccgagtagc tgggactaca ggcacacagt cactgaagca ggccctgttt 180
 gcaattcacg ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtacta 240
 aggttaaaact ttcccaccca gaaaaggcaa cttagataaa atcttagagt actttcatac 300
 tcttctaagt cctcttcag cctcactttg agtcctcctt gggggttgat aggaantntc 360
 tcttggtttt ctcaataaaa tctctatcca tctcatgttt aatttggtac gcntaaaaat 420
 gctgaaaaaa ttaaaatgtt ctgggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa 476

<210> 81
 <211> 232

```
<220>  
<221> misc_feature  
<222> (1)...(232)  
<223> n = A,T,C or G
```

```
<210> 82
<211> 383
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G
```

```
<210> 83
<211> 494
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G
```

<400> 83					
accgaattgg	gacogctggc	ttataagcga	tcatgtcctc	cagtattacc	tcaacgagca 60
gggagatcga	gtctatacgc	tgaagaaatt	tgaccogatg	ggacaacaga	cctgtctcagc 120
ccatcctgct	cggttctccc	cagatgacaa	atactctcga	caccgaatca	ccatcaagaa 180
acgcttcaag	gtgctcatga	cccagcaacc	gcgcctgtc	ctctgagggg	ccttaaactg 240
atgtcttttc	tgccacctgt	taccctctcg	agactccgta	accaaactct	tcggaactgtg 300
agccctgatg	cctttttgcc	agccatactc	tttggentcc	agtctctcgt	ggcgattgat 360
tatgcttgty	tgaggcaatc	atggtggcat	cacccatnaa	gggaacacat	ttganttttt 420
tttncatat	tttaaattac	naccagaata	nttcagaata	aatgaattga	aaaactctta 480
aaaaaaaaaa	aaaa				494

<210> 84
 <211> 380
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(380)
 <223> n = A,T,C or G

<400> 84
 gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca 60
 agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag 120
 gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggcttcttg 180
 gcacaccctc ctggggccca ggcgggcacc tgcgtctccc agtatgccaa ctggctggtg 240
 gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgctggtcac ttgctcattg 300
 ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360
 agcgttncgg cctcatccgg 380

<210> 85
 <211> 481
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(481)
 <223> n = A,T,C or G

<400> 85
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggcctctcgc ttcataccgc 60
 tnccatcgtc ataactgtagg ttggccacca cctcctgcat cttggggcgg ctaatatcca 120
 ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180
 tgtgaaagga totccagaag gagtgtctga tcttccccac acttttgatg actttattga 240
 gtcgattctg catgtccagc aggaggttgt accagctctc tgacagtgag gtcaccagcc 300
 ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggt gnagtctcac 360
 ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420
 aaagaacacc tcttggaagt gctngccgct cctcgtccnt tggtggnngc gcntnccttt 480
 t 481

<210> 86
 <211> 472
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(472)
 <223> n = A,T,C or G

<400> 86
 aacatcttcc tgtataatgc tgtgtaatat cgatcogatn ttgtctgctg agaattcatt 60
 acttggaana gcaacttnaa gcctggacac tgggtattaaa attcacaata tgcaacatt 120
 taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg 180

```
<210> 87
<211> 413
<212> DNA
<213> Homo sapien
```

<400>	87							
ccagt	atctctnaaa	acaacctctc	ataccttggt	gacctaat	tgtgtgcgtg			60
gtgcg	cgcatattat	atagacaggc	acatcttttt	tacttttgta	aaagcttatg			120
ttggt	atctatatct	gtgaaagttt	taatgatctg	ccataatgtc	ttggggacct			180
ttctg	tgtaaatggg	actagagaaa	acacctatnt	tatgagtcaa	tctagttngt			240
tcgac	atgaaggaaa	tttcagatn	acaacactna	caaactctcc	cttgactagg			300
caaag	aaaagcanaa	ctgaacatna	gaaacaattn	cctggtgaga	aattncataa			360
aattg	ggtngtatat	tgaaanann	catcattnaa	acgttttttt	ttt			413

```
<210> 88
<211> 448
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(448)
<223> n = A,T,C or G
```

<400> 88						
cgcagcgggt	cctctctatc	tagctccagc	ctctcgctcg	ccccactccc	cgcgtcccgc	60
gtcctagccn	accatggcgc	ggccccctgcg	cgccccgctg	ctcctgctgg	ccatcctggc	120
cgtggccccg	gcgctgagcc	cgcgggccgg	ctccagtccc	ggcaagccgc	cgcgcctggg	180
gggaggccca	tggaccccgc	gtggaagaag	aaggtgtgcg	gcgtgcactg	gactttgccg	240
tcggcnanta	caacaaaccc	gcaacnactt	ttaccnagcn	cgcgctgcag	gttgtgccgc	300
cccaancaaa	ttgttactng	gggtaantaa	ttcttggaag	ttgaacctgg	gccaaaacnng	360
tttaccagaa	ccnagccaat	tngaacaatt	ccccctccat	aacagcccct	tttaaaaagg	420
gaancantcc	tgntcttttc	caaatttt				448

```
<210> 89
<211> 463
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G
```

```

<400> 89
gaattttgtg cactggccac tgtgatggaa ccattgggcc aggatgcttt gagtttatca    60
gtagtgattc tgccaaagt ggtgttgtaa catgagtatg taaaatgtca aaaaattagc    120
agaggtctag gtctgcatat cagcagacag tttgtccgtg tattttgtag ccttgaagtt    180
ctcagtgaca agttnnttct gatgcgaagt tctnattcca gtgttttagt cctttgcatc    240
tttnatgttn agacttgcct ctntnaaatt gcttttgtnt tctgcaggta ctatctgtgg    300
tttaacaaaa tagaannact tctctgcttn gaanatttga atatcttaca tctnaaaatn    360
aattctctcc ccatannaaa acccangccc ttggganaat ttgaaaaang gntccttcnn    420
aattcnnana anttcagtn tcatacaaca naacngganc ccc                        463

```

```

<210> 90
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

```

```

<400> 90
agggattgaa ggtctnttnt actgtcggac tgttcancca ccaactctac aagttgctgt    60
cttccactca ctgtctgtaa gcntnttaac ccagactgta tcttcataaa tagaacaaat    120
tcttcaccag tcacatcttc taggaccttt ttggattcag ttagtataag ctcttccact    180
tcctttgtta agacttcate tggtaaagtc ttaagttttg tagaaaaggaa tttaatgtct    240
cgttctctaa caatgtcctc tccttgaagt atttggctga acaaccacc tnaagtcctt    300
ttgtgcatcc attttaaata tacttaatag ggcattggtt cactaggtta aattctgcaa    360
gagtcactctg tctgcaaaaag ttgcgttagt atatctgcca                        400

```

```

<210> 91
<211> 480
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 91
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact    60
ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac    120
atgcctcttt gactaccgtg tgccagtgtt ggtgattctc acacacctcc nncgctctt    180
tgtgaaaaaa ctggcacttg nctggaacta gcaagacatc acttataaat tcaccacga    240
gacacttgaa aggtgtaaca aagcgactct tgcattgctt tttgtccctc cggcaccagt    300
tgtcaatact aaccgctgg tttgcctcca tcacatttgt gatctgtagc tctggatata    360
tctcctgaca gtactgaaga acttcttctt ttgtttcaaa agcaactctt ggtgcctgtt    420
ngatcaggtt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa    480

```

```

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(477)
 <223> n = A,T,C or G

<400> 92
 atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60
 ggtcccgtg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120
 cccacgcagg cagcagcggg gccggtcaat gaactccact cgtggcttgg ggttgacggt 180
 taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccagact gtgcgggacc 240
 tgcagcgaaa ctccctcgatg gtcatgagcg ggaagcgaat gangcccagg gccttgccca 300
 gaaccttccg cctgttctct ggcgtcacct gcagctgctg ccgctnacac tcggcctcgg 360
 accagcggac aaacggcggt gaacagccgc acctcacgga tgcccantgt gtcgcgctcc 420
 aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcgggt aatggcg 477

<210> 93
 <211> 377
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 93
 gaacggctgg accttgctc gcattgtgct gctggcagga ataccttggc aagcagctcc 60
 agtccgagca gccccagacc gctgccgcc gaagctaagc ctgcctctgg ccttcccctc 120
 cgcctcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtn 180
 tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaata ttccaaacaa 240
 caacaacaaa ataacatgtt tgccctgttna gttgtataaaa agtangtgat tctgtatnta 300
 aagaaaatat tactgttaca tatactgctt gcaanttctg tattttattgg tncctcggaa 360
 ataaatatat tattaata 377

<210> 94
 <211> 495
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(495)
 <223> n = A,T,C or G

<400> 94
 ccctttgagg ggttagggtc cagttcccag tggaagaaac aggccaggag aantgctgctc 60
 cgagctgang cagatttccc acagtgacct cagagccctg ggctatagtc tctgacctct 120
 ccaaggaaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg 180
 gaaggcccca ttccggggct gttccccgag gaggaaggga aggggctctg tgtgcccccc 240
 acgaggaana ggccctgant cctgggatca nacaccctt cacgtgtatc cccacacaaa 300
 tgcaagctca ccaaggtccc ctctcagtc ctccoctaca ccctgaacgg nactggccc 360
 acaccacccc agancancca cccgccatgg ggaatgtnc tcaaggaatcg cngggcaacg 420
 tggactctng tcccnnaagg gggcagaatc tccaatagan gganngaacc cttgctnana 480

aaaaaaaaana aaaaa

495

<210> 95
<211> 472
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

<400> 95
ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt 120
tagctgtttt gagttgattc gcaccactgc accacaactc aatatgaaaa ctatttnact 180
tattttattat cttgtgaaaa gtatacaatg aaaattttgt tcatactgta tttatcaagt 240
atgatgaaaa gcaatagata tatattcttt tattatgttn aattatgatt gccattatta 300
atcggcaaaa tgtggagtgt atgttctttt cacagtaata tatgcctttt gtaacttcac 360
ttggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata 420
tttanttcan taatttcttt cttgttttac gttaattttg aaaagaatgc at 472

<210> 96
<211> 476
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

<400> 96
ctgaagcatt ttttcaaact tntctacttt tgtcattgat acctgtagta agttgacaat 60
gtggtgaaat ttcaaaaatta tatgtaactt ctactagtgt tactttctcc cccaagtctt 120
ttttaactca tgattttttac acacacaatc cagaacttat tatatagcct ctaagtcttt 180
attcttcaca gtagatgatg aaagagtcct ccagtgtctt gngcanaatg ttctagntat 240
agctggatac atacngtggg agttctataa actcatacct cagtgggact naaccaaaat 300
tgtgttagtc tcaattccta ccacactgag ggagcctccc aaatcactat attcttatct 360
gcaggtactc ctccagaaaa acngacaggg caggcttgca tgaaaaagtn acatctgcgt 420
tacaaaagtct atcttctcta nangtctgtn aaggaacaat ttaatcttct agcttt 476

<210> 97
<211> 479
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(479)
<223> n = A,T,C or G

<400> 97
actctttcta atgctgatat gatcttgagt ataagaatgc atatgtcact agaattggata 60

aaataatgct	gcaaacttaa	tggttcttatg	caaaatggaa	cgctaataa	acacagctta	120
caatcgcaaa	tcaaaactca	caagtgtctca	tctgtttag	atttagtgta	ataagactta	180
gattgtgctc	cttcggatat	gattgtttct	canatcttgg	gcaatnttcc	ttagtcaa	240
caggctacta	gaattctgtt	attggatatn	tgagagcatg	aaatttttaa	naatacactt	300
gtgattatna	aattaatcac	aaatttcaact	tatacctgct	atcagcagct	agaaaaacat	360
ntnnttttta	natcaaagta	ttttgtgttt	ggaantgttn	aaatgaaatc	tgaatgtggg	420
ttcnatctta	ttttttcccn	gacnactant	tnctttttta	gggnctattc	tgancatc	479

<210> 98

<211> 461

<212> DNA

<213> Homo sapien

<400> 98

agtgaattgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtacc	tgctactat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaactctatt	cctacttgta	cggactttga	180
agtgaattcag	tttctcttac	ggatgagaga	ctggctcaag	aatactctca	tgacgcttta	240
tgaagccact	ctgaacacgc	tggttatcta	gatgagaaca	gagaaataaa	gtcagaaaat	300
ttacctggag	aaaagaggct	ttggctgggg	accatcccat	tgaaccttct	cttaaggact	360
ttaagaaaaa	ctaccacatg	ttgtgtatcc	tggtgccggc	cgtttatgaa	ctgaccaccc	420
tttggaataa	tcttgacgct	cctgaacttg	ctcctctgcg	a		461

<210> 99

<211> 171

<212> DNA

<213> Homo sapien

<400> 99

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 tagtgggtgat cccagtgtc tactggggga tgagagaaag gcattttata gcttgggcat 1200
 aagtgaaatc agcagagcct ctgggtggat gtgtagaagg cacttcaaaa tgcataaacc 1260
 tgttacaatg ttaaaaaaaaa aaaaaaaaaa 1289

<210> 112
 <211> 315
 <212> PRT
 <213> Homo sapien

<400> 112
 Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln
 1 5 10 15
 Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe
 20 25 30
 Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala
 35 40 45
 Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu
 50 55 60
 Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro
 65 70 75 80
 Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser
 85 90 95
 Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys
 100 105 110
 Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe
 115 120 125
 Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe


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<210> 113
<211> 553
<212> PRT
<213> Homo sapien
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	<400> 113															
Met	Val	Gln	Arg	Leu	Trp	Val	Ser	Arg	Leu	Leu	Arg	His	Arg	Lys	Ala	
1				5					10					15		
Gln	Leu	Leu	Leu	Val	Asn	Leu	Leu	Thr	Phe	Gly	Leu	Glu	Val	Cys	Leu	
			20					25					30			
Ala	Ala	Gly	Ile	Thr	Tyr	Val	Pro	Pro	Leu	Leu	Leu	Glu	Val	Gly	Val	
		35					40					45				
Glu	Glu	Lys	Phe	Met	Thr	Met	Val	Leu	Gly	Ile	Gly	Pro	Val	Leu	Gly	
	50					55					60					
Leu	Val	Cys	Val	Pro	Leu	Gly	Ser	Ala	Ser	Asp	His	Trp	Arg	Gly		
65					70				75					80		
Arg	Tyr	Gly	Arg	Arg	Arg	Pro	Phe	Ile	Trp	Ala	Leu	Ser	Leu	Gly	Ile	
				85					90					95		
Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	Gly	Trp	Leu	Ala	Gly	Leu	
			100					105					110			
Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Leu	Ile	Leu	Gly	
		115					120					125				
Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	Cys	Phe	Thr	Pro	Leu	Glu	
	130					135					140					
Ala	Leu	Leu	Ser	Asp	Leu	Phe	Arg	Asp	Pro	Asp	His	Cys	Arg	Gln	Ala	
145					150					155				160		
Tyr	Ser	Val	Tyr	Ala	Phe	Met	Ile	Ser	Leu	Gly	Gly	Cys	Leu	Gly	Tyr	
				165					170					175		
Leu	Leu	Pro	Ala	Ile	Asp	Trp	Asp	Thr	Ser	Ala	Leu	Ala	Pro	Tyr	Leu	
			180					185					190			

Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu
 195 200 205
 Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly
 210 215 220
 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His
 225 230 235 240
 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu
 245 250 255
 Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg
 260 265 270
 Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe
 275 280 285
 Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val
 290 295 300
 Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
 305 310 315 320
 Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu
 325 330 335
 Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg
 340 345 350
 Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala
 355 360 365
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
 370 375 380
 Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala
 385 390 395 400
 Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
 405 410 415
 Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu
 420 425 430
 Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala
 435 440 445
 Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser
 450 455 460
 Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala
 465 470 475 480
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 485 490 495
 Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser
 500 505 510
 Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala
 515 520 525
 Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp
 530 535 540
 Lys Ser Asp Leu Ala Lys Tyr Ser Ala
 545 550

<210> 114
 <211> 241
 <212> PRT
 <213> Homo sapien

<400> 114
 Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu

```
<210> 115
<211> 366
<212> DNA
<213> Homo sapien
```

```
<210> 116
<211> 282
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(282)
```

<223> n = A,T,C or G

<400> 116

```

acaaagatga accatttcct atattatagc aaaattaaaa tctaccogta ttctaattatt      60
gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa      120
agactttact attttcatat tttaagacac atgatttata ctatttttagt aacctgggtc      180
atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt      240
tcaatctnga actatctana tcacagacat ttctattcct tt                          282

```

<210> 117

<211> 305

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(305)

<223> n = A,T,C or G

<400> 117

```

acacatgtcg cttcactgcc ttcttagatg cttctgggtca acatanagga acagggacca      60
tatttatcct ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa      120
aataaggcaa aatatatgaa acaacaggtc tcgagatatt ggaaatcagt caatgaagga      180
tactgatccc tgatcactgt cctaatgcag gatgtgggaa acagatgagg tcacctctgt      240
gactgccccca gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat      300
tgggt                                              305

```

<210> 118

<211> 71

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(71)

<223> n = A,T,C or G

<400> 118

```

accaaggtgt ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa      60
aantcctggg t                                              71

```

<210> 119

<211> 212

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(212)

<223> n = A,T,C or G

<400> 119

```

actccggttg gtgtcagcag cacgtggcat tgaacatngc aatgtggagc ccaaaccaca      60
gaaaatgggg tgaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac      120

```

agtaagctgg cccttctaataaaaagaaaat tgaaagggtt ctactaanc ggaattaant 180
aatggantca aganactccc aggcctcagc gt 212

<210> 120
<211> 90
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(90)
<223> n = A,T,C or G

<400> 120
actcggttgca natcaggggc cccccagagt caccggttgca ggagtccttc tggctcttgcc 60
ctccgccggc gcagaacatg ctggggtggt 90

<210> 121
<211> 218
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(218)
<223> n = A,T,C or G

<400> 121
tgtancgtga anacgacaga naggggtgtc aaaaatggag aanccttgaa gtcattttga 60
gaataagatt tgctaaaaga tttggggcta aaacatggtt attgggagac atttctgaag 120
atatncangt aaattangga atgaattcat ggttcttttg ggaattcctt tacgatngcc 180
agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122
<211> 171
<212> DNA
<213> Homo sapien

<400> 122
taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60
catttgtag ctcattggaac aggaagtcgg atgggtggggc atcttcagtg ctgcatgagt 120
caccaccccg gcgggggtcat ctgtgccaca ggtccctggt gacagtgcg t 171

<210> 123
<211> 76
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(76)
<223> n = A,T,C or G

<400> 123

tgtagcgtga agacnacaga atgggtgtgtg ctgtgctatc caggaacaca tttattatca 60
 ttatcaanta ttgtgt 76

<210> 124
 <211> 131
 <212> DNA
 <213> Homo sapien

<400> 124
 acctttcccc aaggccaatg tctgtgtgctg taactggccg gctgcaggac agctgcaatt 60
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120
 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
 actttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60
 cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgctcaga tgctgaagaa 120
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180
 ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240
 ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300
 catggtgggg gtcttgcacg tgtaagaatg gaattgatt tgcttttgca agaattctcag 360
 caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccct agtgcctctc 420
 ctctttgctt gt 432

<210> 126
 <211> 112
 <212> DNA
 <213> Homo sapien

<400> 126
 acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60
 agtaagaatg atatttcccc ccagggatca ccaaataatt ataaaaattt gt 112

<210> 127
 <211> 54
 <212> DNA
 <213> Homo sapien

<400> 127
 accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 128
 acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 60
 acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 120
 ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc 180

ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tottagcctt 240
 ttcttgcaaa aggctcactc agtccttgcc ttgctcagtg gactgggctc cccagggcct 300
 aggctgcctt cttttccatg tcc 323

<210> 129
 <211> 192
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(192)
 <223> n = A,T,C or G

<400> 129
 acatacatgt gtgtatatatt ttaaatatca cttttgtatc actctgactt tttagcatac 60
 tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc 120
 tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg 180
 gataaacaaa gt 192

<210> 130
 <211> 362
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(362)
 <223> n = A,T,C or G

<400> 130
 ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca 60
 tataatgacg caacaaaaag gtgctgttta gtcctatggg tcagtttatg cccctgacaa 120
 gtttccattg tgttttgccg atcttctggc taatcgtggg atcctccatg ttattagtaa 180
 ttctgtattc ctttttgta acgcctggta gatgtaacct gctangaggc taactttata 240
 cttatttaaa agctcttatt ttgtgggtcat taaaatggca atttatgtgc agcactttat 300
 tgcagcagga agcacgtgtg ggttggttgg aaagctcttt gctaatttta aaaagtaatg 360
 gg 362

<210> 131
 <211> 332
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

<400> 131
 ctttttgaaa gatcgtgtcc actcctgtgg acatcttgtt ttaatggagt ttcccatgca 60
 gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga 120
 gttctcccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc 180
 ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttggtttatt atccaactaa 240

cttccatctg ttatcactgg agaaagccca gactccccan gacnggtacg gattgtgggc 300
atanaaggat tgggtgaagc tggcgttggtg gt 332

<210> 132
<211> 322
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(322)
<223> n = A,T,C or G

<400> 132
acttttgcca ttttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc 60
agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat 120
ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggacctttg tatctcgggt 180
tttagcaagt taaaatgaan atgacaggaa aggcttattt atcaacaaag agaagagttg 240
ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct aggggaagcct 300
gtaacaatct acaattggtc ca 322

<210> 133
<211> 278
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 133
acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt 60
cttggttttc tttccatctg gctcctgggt tgacaatttg tggaaacaac tctattgcta 120
ctatttataaa aaaatcacaa atctttccct ttaagctatg ttnaattcaa actattcctg 180
ctattcctgt tttgtcaaag aaattatatt tttcaaaata tgtntatttg tttgatgggt 240
cccacgaac actaataaaa accacagaga ccagcctg 278

<210> 134
<211> 121
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(121)
<223> n = A,T,C or G

<400> 134
gtttanaaaa cttgttttagc tccatagagg aaagaatggt aaactttgta ttttaaaaca 60
tgattctctg aggttaaact tgggttttcaa atgttatatt tacttgtatt ttgcttttgg 120
t 121

<210> 135

<211> 350
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(350)
 <223> n = A,T,C or G

<400> 135
 acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc 60
 atancaagtg gtgactggtt aagcgtgcga caaaggctcag ctggcacatt acttgtgtgc 120
 aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tggtagtcca 180
 gggtagcccc caactcctgc agccgctcct ctgtgccagn ccctgnaagg aactttcgct 240
 ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttgctgag 300
 ttcccaagga tgcaaagcct ggtgctcaac tcctggggcg tcaactcagt 350

<210> 136
 <211> 399
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 136
 tgtaccgtga agacgacaga agttgcatgg caggacaggg gcagggccga ggccaggggtt 60
 gctgtgattg tatccgaata ntctcgtga gaaaagataa tgagatgacg tgagcagcct 120
 gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttggctctga 180
 cctggcgggc agccagccag ccacaggtgg gcttcttcct tttgtggtga caacnccaag 240
 aaaactgcag agggccaggg tcaggtgtna gtgggtangt gaccataaaa caccaggtgc 300
 tcccaggaac ccgggcaaaag gccatcccca cctacagcca gcatgcccac tggcgtgatg 360
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

<210> 137
 <211> 165
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A,T,C or G

<400> 137
 actggtgtgg tngggggtga tgctggtggt anaagttgan gtgacttcan gatggtgtgt 60
 ggaggaagtg tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga 120
 ttggctggtc ccactggtgg tcaactgtcat tggtaggggtt cctgt 165

<210> 138
 <211> 338
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(338)

<223> n = A,T,C or G

<400> 138

actcactgga	atgccacatt	cacaacagaa	tcagaggtct	gtgaaaacat	taatggctcc	60
ttaacttctc	cagtaagaat	cagggacttg	aaatggaaac	gttaacagcc	acatgcccac	120
tgctgggcag	tctcccatgc	cttccacagt	gaaagggctt	gagaaaaatc	acatccaatg	180
tcatgtgttt	ccagccacac	caaaagggtgc	ttgggggtgga	gggctggggg	catananggt	240
cangcctcag	gaagcctcaa	gttccattca	gctttgccac	tgtacattcc	ccatntttta	300
aaaaactgat	gccttttttt	tttttttttg	taaaattc			338

<210> 139

<211> 382

<212> DNA

<213> Homo sapien

<400> 139

gggaatcttg	gtttttggca	tctggtttgc	ctatagccga	ggccactttg	acagaacaaa	60
gaaagggact	tcgagtaaga	aggtgattta	cagccagcct	agtgcccgaa	gtgaaggaga	120
attcaaacag	acctcgatcat	tcctgggtgtg	agcctgggtcg	gtcaccgcc	tatcatctgc	180
atttgcccta	ctcaggtgct	accggactct	ggccccgat	gtctgtagtt	tcacaggatg	240
ccttatttgt	cttctacacc	ccacagggcc	ccctaactct	tcggatgtgt	ttttaataat	300
gtcagctatg	tgccccatcc	tccttcacgc	cctccctccc	tttccctacca	ctgctgagtg	360
gcctggaact	tgtttaaagt	gt				382

<210> 140

<211> 200

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(200)

<223> n = A,T,C or G

<400> 140

acccaaanctt	ctttctgttg	tgttngattt	tactataggg	gtttngcttn	ttctaaanat	60
acttttcatt	taacancttt	tgtaagtgt	caggctgcac	tttgcctcat	anaattattg	120
ttttcacatt	tcaacttgta	tgtgtttgtc	tcttanagca	ttggtgaaat	cacatatttt	180
atattcagca	taaaggagaa					200

<210> 141

<211> 335

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(335)

<223> n = A,T,C or G

<400> 141
 actttatttt caaaacactc atatgttgca aaaaacacat agaaaaataa agtttggtgg 60
 ggggtgctgac taaacttcaa gtcacagact tttatgtgac agattggagc agggtttggt 120
 atgcatgtag agaaccctaaa ctaatttatt aaacaggata gaaacaggct gtctgggtga 180
 aatgggttctg agaaccatcc aattcacctg tcagatgctg atanactagc tcttcagatg 240
 tttttctacc agttcagaga tnggttaatg actanttcca atggggaaaa agcaagatgg 300
 attcacaac caagtaattt taaacaaaga cactt 335

<210> 142
 <211> 459
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(459)
 <223> n = A,T,C or G

<400> 142
 accaggttaa tattgccaca tatatccttt ccaattgcgg gctaaacaga cgtgtattta 60
 gggttgttta aagacaaccc agcttaatat caagagaaat tgtgacctt catggagtat 120
 ctgatggaga aaacactgag ttttgacaaa tcttatttta ttcagatagc agtctgatca 180
 cacatgggtcc aacaacactc aaataataaa tcaaataatna tcagatgta aagattggtc 240
 ttcaaacatc atagccaatg atgccccgct tgcctataat ctctccgaca taaaaccaca 300
 tcaacacctc agtggccacc aaaccattca gcacagcttc cttaactgtg agctgtttga 360
 agctaccagt ctgagcacta ttgactatnt ttttcangct ctgaatagct ctagggatct 420
 cagcangggg gggaggaacc agctcaacct tggcgtant 459

<210> 143
 <211> 140
 <212> DNA
 <213> Homo sapien

<400> 143
 acatttcctt ccaccaagtc aggactcctg gcttctgtgg gagttcttat cacctgaggg 60
 aaatccaaac agtctctcct agaaaggaat agtgtcacca accccacca tctccctgag 120
 accatccgac ttccctgtgt 140

<210> 144
 <211> 164
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(164)
 <223> n = A,T,C or G

<400> 144
 acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct 60
 atctatacca ctctcccttc tgaaaacaan aatcactanc caatcactta tacaaatttg 120
 aggcaattaa tccatatttg ttttcaataa ggaaaaaaag atgt 164

<210> 145
 <211> 303
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 145
 acgtagacca tcacaatttg tatttgaat ggcaaacatc cagnagcaat tcctaaacaa 60
 actggagggt atttatacc aattatccca ttcattaaca tgccctcctc ctcaggctat 120
 gcaggacagc tatcataagt cggcccaggc atccagatac taccatttgt ataaacttca 180
 gtaggggagt ccatccaagt gacaggctta atcaaaggag gaaatggaac ataagcccag 240
 tagtaaaatn ttgcttagct gaaacagcca caaaagactt accgccgtgg tgattaccat 300
 caa 303

<210> 146
 <211> 327
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(327)
 <223> n = A,T,C or G

<400> 146
 actgcagctc aattagaagt ggtctctgac tttcatcanc ttctccctgg gctccatgac 60
 actggcctgg agtgactcat tgctctgggt gggtgagaga gtccttttgc caacaggcct 120
 ccaagtcagg gctgggattt gtttccttcc cacattctag caacaatatg ctggccactt 180
 cctgaacagg gaggggtgga ggagccagca tggaacaagc tgccactttc taaagtagcc 240
 agacttgccc ctgggcctgt cacacctact gatgaccttc tgtgcctgca ggatggaatg 300
 taggggtgag ctgtgtgact ctatggt 327

<210> 147
 <211> 173
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(173)
 <223> n = A,T,C or G

<400> 147
 acattgtttt tttgagataa agcattgana gagctctcct taacgtgaca caatggaagg 60
 actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gtt 173

<210> 148
 <211> 477
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(477)

<223> n = A,T,C or G

<400> 148

acaaccactt	tatctcatcg	aatttttaac	ccaaactcac	tactgtgccc	tttctatcct	60
atgggatata	ttatttgatg	ctccatttca	tcacacatat	atgaataata	cactcatact	120
gccctactac	ctgctgcaat	aatcacattc	ccttcctgtc	ctgaccctga	agccattggg	180
gtggtcctag	tggccatcag	tccangcctg	caccttgagc	ccttgagctc	cattgctcac	240
nccancccac	ctcaccgacc	ccatcctctt	acacagctac	ctccttgctc	tctaacccca	300
tagattatnt	ccaaattcag	tcaattaagt	tactattaac	actctacccg	acatgtccag	360
caccactggg	aagccttctc	cagccaacac	acacacacac	acacncacac	acacacatat	420
ccaggcacag	gctacctcat	cttcacaatc	acccctttaa	ttaccatgct	atgggtgg	477

<210> 149

<211> 207

<212> DNA

<213> Homo sapien

<400> 149

acagttgtat	tataatatca	agaaataaac	ttgcaatgag	agcatttaag	agggagaagaac	60
taacgtat	tagagagcca	aggaaggttt	ctgtggggag	tgggatgtaa	gggtggggcct	120
gatgataaat	aagagtcagc	caggtaagt	ggtgggtgtg	tatgggcaca	gtgaagaaca	180
tttcaggcag	agggacacgc	agtgaaa				207

<210> 150

<211> 111

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(111)

<223> n = A,T,C or G

<400> 150

accttgattt	cattgctgct	ctgatggaaa	cccaactatc	taatttagct	aaaacatggg	60
cacttaaatg	tggtcagtgt	ttggacttgt	taactantgg	catctttggg	t	111

<210> 151

<211> 196

<212> DNA

<213> Homo sapien

<400> 151

agcgcgag	gtcatattga	acattccaga	tacctatcat	tactcgatgc	tgttgataac	60
agcaagatgg	ctttgaactc	agggtcacca	ccagctattg	gaccttacta	tgaaaaccat	120
ggataccaac	cggaaaaccc	ctatcccgc	cagcccactg	tgggtccccc	tgtctacgag	180
gtgcatccgg	ctcagt					196

<210> 152

<211> 132
 <212> DNA
 <213> Homo sapien

<400> 152
 acagcacttt cacatgtaag aagggagaaa ttcctaaatg taggagaaag ataacagAAC 60
 cttcccccttt tcatctagtgt gtggaaacct gatgctttat gttgacagga atagaaccag 120
 gagggagttt gt 132

<210> 153
 <211> 285
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(285)
 <223> n = A,T,C or G

<400> 153
 acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag 60
 cttctgctct tatgtcctca tctgacaact ctttaccatt tttatcctcg ctcagcagga 120
 gcacatcaat aaagtccaaa gtcttggact tggccttggc ttggaggaag tcatcaacac 180
 cctggctagt gaggggtgcgg cgccgctcct ggatgacggc atctgtgaag tcgtgcacca 240
 gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt 285

<210> 154
 <211> 333
 <212> DNA
 <213> Homo sapien

<400> 154
 accacagtcc tgttggggcca gggcttcatg accctttctg tgaaaagcca tattatcacc 60
 accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac 120
 cctaagccgg ttacacagct aactcccact ggccctgatt tgtgaaattg ctgctgcctg 180
 attggcacag gagtccaagg tgttcagctc ccctcctcgg tggaacgaga ctctgatttg 240
 agtttcacaa attctcgggc cacctcgta ttgctcctct gaaataaaat ccggagaatg 300
 gtcaggcctg tctcatccat atggatcttc cgg 333

<210> 155
 <211> 308
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(308)
 <223> n = A,T,C or G

<400> 155
 actggaaata ataaaaccca catcacagtg ttgtgtcaaa gatcatcagg gcatggatgg 60
 gaaagtgctt tgggaactgt aaagtgccta acacatgatc gatgattttt gttataatat 120
 ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc 180
 atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggct 240

gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcatgctg 300
gccctggt 308

<210> 156
<211> 295
<212> DNA
<213> Homo sapien

<400> 156
accttgctcg gtgcttggaa catattagga actcaaaata tgagatgata acagtgccta 60
ttattgatta ctgagagaac tgttagacat ttagttgaag attttctaca caggaactga 120
gaataggaga ttatgtttgg ccctcatatt ctctcctatc ctcttgcct cattctatgt 180
ctaatatatt ctcaatcaaa taaggtttagc ataatcagga aatcgaccaa ataccaatat 240
aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

<210> 157
<211> 126
<212> DNA
<213> Homo sapien

<400> 157
acaagtttaa atagtgtgtg cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60
gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc 120
cttagt 126

<210> 158
<211> 442
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(442)
<223> n = A,T,C or G

<400> 158
accactggt cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60
aanccagcag gctgccccta gtcagtcctt ccttccagag aaaaagagat ttgagaaagt 120
gcctgggtaa ttcaccatta atttcctccc ccaaactctc tgagtcttcc cttaatat 180
ctggtgggtc tgaccaaagc aggtcatggt ttgttgagca tttgggatcc cagtgaagta 240
natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300
ccaaccctgt tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga 360
nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420
tgttcattct ctgatgtcct gt 442

<210> 159
<211> 498
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = A,T,C or G

<400> 159

acttccaggt	aacgttggtg	tttccgttga	gcctgaactg	atgggtgacg	ttgtaggttc	60
tccaacaaga	actgaggttg	cagagcgggt	aggggaagagt	gctgttccag	ttgcacctgg	120
gctgctgtgg	actgttggtg	attcctcact	acggcccaag	gttgtggaac	tggcanaaag	180
gtgtgttggt	gganttgagc	tcgggcggct	gtggtagggt	gtgggctctt	caacaggggc	240
tgctgtggtg	cogggangtg	aangtggtgt	gtcacttgag	cttggccagc	tctggaaagt	300
antanattct	tcctgaaggc	cagcgcttgt	ggagctggca	ngggtcantg	ttgtgtgtaa	360
cgaaccagtg	ctgctgtggg	tgggtgtana	tcctccacaa	agcctgaagt	tatggtgtcn	420
tcaggtaana	atgtggtttc	agtgtccctg	ggcngctgtg	gaaggttgta	nattgtcacc	480
aagggaataa	gctgtggt					498

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 160

acctgcatcc	agcttccctg	ccaaactcac	aaggagacat	caacctctag	acagggaaac	60
agcttcagga	tacttccagg	agacagagcc	accagcagca	aaacaaatat	tcccatgcct	120
ggagcatggc	atagaggaag	ctganaaatg	tggggtctga	ggaagccatt	tgagtctggc	180
cactagacat	ctcatcagcc	acttgtgtga	agagatgcc	catgacccca	gatgcctctc	240
ccacccttac	ctccatctca	cacacttgag	ctttccactc	tgtataattc	taacatcctg	300
gagaaaaatg	gcagtttgac	cgaacctgtt	cacaacggta	gaggctgatt	tctaacgaaa	360
cttgtagaat	gaagcctgga					380

<210> 161

<211> 114

<212> DNA

<213> Homo sapien

<400> 161

actccacatc	ccctctgagc	aggcggttgt	cgttcaaggt	gtatttggcc	ttgcctgtca	60
cactgtccac	tggcccotta	tccacttggg	gcttaatccc	tcgaaagagc	atgt	114

<210> 162

<211> 177

<212> DNA

<213> Homo sapien

<400> 162

actttctgaa	tcgaatcaaa	tgatacttag	tgtagtttta	atatacctcat	atataatcaaa	60
gttttactac	tctgataatt	ttgtaaacca	ggtaaccaga	acatccagtc	atacagcttt	120
tgggtgatata	taacttggca	ataaccagct	ctggtgatac	ataaaactac	tcactgt	177

<210> 163

<211> 137

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n = A,T,C or G

<400> 163
 catttatata gacagggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtgac 60
 canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120
 catcagcggc atgatgt 137

<210> 164
 <211> 469
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(469)
 <223> n = A,T,C or G

<400> 164
 ottatcacaa tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
 tgcaatgcat catgctatct catacctaat gagggagttc caggagattc aaccaggaaa 120
 tgcattggatc tcaaaggaaa caaacacca ataaactcgg agtggcagac tgacaactgt 180
 gagacatgca cttgtctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240
 ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300
 gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360
 tctagtaggc acagggctcc caggccaggc ctcattctcc tctggcctct aatagtcatt 420
 gattgtgtag ccattgcctat cagtaaaaag atntttgagc aaacacttt 469

<210> 165
 <211> 195
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(195)
 <223> n = A,T,C or G

<400> 165
 acagtttttt atanatatcg acattgccgg cacttgtgtt cagtttcata aagctgggtg 60
 atccgctgtc atccactatt ccttggctag agtaaaaatt attcttatag cccatgtccc 120
 tgcaggccgc ccgccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180
 tcctctgaga tgagt 195

<210> 166
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 166

```
acatcttagt agtgtggcac atcagggggc catcagggtc acagtcactc atagcctcgc      60
cgaggtcggg gtccacacca ccggtgtagg tgtgctcaat cttgggcttg gcgcccacct      120
ttggagaagg gatatgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt      180
tttgagacc agcctgagca agggcggat gttcagcttc agtcctcct tcgtcagggtg      240
gatgccaacc tcgtctangg tccgtgggaa gctggtgtcc acntcaccta caacctgggc      300
gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt      360
nggggccttt ttggtgaact ttc                                         383
```

<210> 167

<211> 247

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(247)

<223> n = A,T,C or G

<400> 167

```
acagagccag accttggcca taaatgaanc agagattaag actaaacccc aagtcganat      60
tgagagagaa actggagcaa gaagtggggc tggggctgaa gtagagacca agggcactgc      120
tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac      180
tcaatctgan tccaaagtgg tggctggaac actggtcatg acanaggcag tgactctgac      240
tgaangtc                                         247
```

<210> 168

<211> 273

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(273)

<223> n = A,T,C or G

<400> 168

```
acttctaagt ttctagaag tggaaggatt gtantcatcc tgaaaatggg ttactttcaa      60
aatccctcan ccttggtctt cacnactgtc tatactgana gtgtcatgtt tccacaaagg      120
gctgacacct gagcctgnat ttctactcat ccctgagaag ccctttccag taggggtggc      180
aattcccaac ttcttgcca caagcttccc aggetttctc ccctggaaaa ctccagcttg      240
agtcccagat acactcatgg gctgccctgg gca                                         273
```

<210> 169

<211> 431

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 169

acagccttgg	cttcccaaaa	ctccacagtc	tcagtgcaga	aagatcatct	tccagcagtc	60
agctcagacc	aggggtcaaag	gatgtgacat	caacagtttc	tggtttcaga	acagggttcta	120
ctactgtcaa	atgaccccc	atacttcctc	aaaggctgtg	gtaagttttg	cacagggtgag	180
ggcagcagaa	aggggggtant	tactgatgga	caccatcttc	tctgtatact	ccacactgac	240
cttgccatgg	gcaaaggccc	ctaccacaaa	aacaatagga	tcactgctgg	gcaccagctc	300
acgcacatca	ctgacaaccg	ggatggaaaa	agaantgcc	actttcatac	atccaactgg	360
aaagtgatct	gatactggat	tcttaattac	cttcaaaaagc	ttctgggggc	catcagctgc	420
tcgaacactg	a					431

<210> 170

<211> 266

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(266)

<223> n = A,T,C or G

<400> 170

acctgtgggc	tgggctgtta	tgcctgtgcc	ggctgctgaa	agggagtcca	gaggtggagc	60
tcaaggagct	ctgcaggcat	tttgccaanc	ctctccanag	canagggagc	aacctacact	120
ccccgctaga	aagacaccag	attggagtcc	tgggaggggg	agttgggggtg	ggcatttgat	180
gtatacttgt	cacctgaatg	aangagccag	agaggaanga	gacgaanatg	anattggcct	240
tcaaagctag	gggtctggca	ggtgga				266

<210> 171

<211> 1248

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1248)

<223> n = A,T,C or G

<400> 171

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcact	cgcagccctg	gcaggcggca	60
ctggtcatgg	aaaacgaatt	gttctgctcg	ggcgtcctgg	tgcattccgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgaagt	cagagctcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccag	agtacaacag	acccttgctc	gctaaccgacc	tcattgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcggggaact	cttgccctgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcgggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggaggggc	aagaccagaa	ggactcctgc	540
aacggtgact	ctgggggggc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccagggtgtct	acaccaacct	ctgcaaattc	660
actgagtgga	tagagaaaac	cgtccagggc	agttaactct	ggggactggg	aacccatgaa	720
attgaccccc	aaatacatcc	tgcggaagga	attcaggaat	atctgttccc	agccctcct	780
ccctcaggcc	caggagtcca	ggccccagc	ccctcctccc	tcaaaccaag	ggtacagatc	840

```

cccagcccct cctccctcag acccaggagt ccagaccccc cagcccctcc tccctcagac      900
ccaggagtcc agcccctcct ccctcagacc caggagtcca gacccccag cccctcctcc      960
ctcagaccca ggggtccagg cccccaaccc ctctccctc agactcagag gtccaagccc     1020
ccaaccntc attcccaga cccagaggtc cagggtccag cccctcntcc ctcagaccca     1080
gcggtccaat gccacctaga ctntccctgt acacagtgcc cccttggtgc acgttgaccc     1140
aaccttacca gttggttttt catttttngt ccccttcccc tagatccaga aataaagttt     1200
aagagaagng caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa     1248

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<210> 172
<211> 159
<212> PRT
<213> Homo sapien

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<220>
<221> VARIANT
<222> (1)...(159)
<223> Xaa = Any Amino Acid

```

```

<400> 172
Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
  1              5              10              15
Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
      20              25              30
Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
      35              40              45
Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
      50              55              60
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
      65              70              75              80
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
      85              90              95
Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
      100             105             110
Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
      115             120             125
Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
      130             135             140
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
      145             150             155

```

```

<210> 173
<211> 1265
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1265)
<223> n = A,T,C or G

```

```

<400> 173
ggcagccgc actgcagcc ctggcaggcg gcactggtca tggaaaacga attgttctgc      60
tcggggtcc tgggtgcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc     120
tacaccatcg ggctgggcct gcacagtctt gagggccgacc aagagccagg gagccagatg     180

```

gtggaggcca	gcctctccgt	acggcaccca	gagtacaaca	gacccttgct	cgctaacgac	240
ctcatgctca	tcaagttgga	cgaatccgtg	tccgagtcgt	acaccatccg	gagcatcagc	300
attgcttcgc	agtgccctac	cgcggggaac	tcttgccctg	tttctggctg	gggtctgctg	360
gcgaacggtg	agctcacggg	tgtgtgtctg	ccctcttcaa	ggaggtcctc	tgccagtcg	420
cgggggctga	cccagagctc	tgcgtcccag	gcagaatgcc	taccgtgctg	cagtgcgtga	480
acgtgtcggg	ggtgtctgag	gaggtctgca	gtaagctcta	tgaccgcgtg	taccacccca	540
gcatgtttctg	cgccggcgga	gggcaagacc	agaaggactc	ctgcaacggt	gactctgggg	600
ggcccctgat	ctgcaacggg	tacttgacag	gccttggtgtc	tttcggaaaa	gccccgtgtg	660
gccaagttgg	cgtgccagggt	gtctacacca	acctctgcaa	attcactgag	tggatagaga	720
aaaccgtcca	ggccagttaa	ctctggggac	tgggaaccca	tgaaattgac	ccccaataac	780
atcctgcgga	aggaattcag	gaatatctgt	tcccagcccc	tcctccctca	ggcccaggag	840
tccaggcccc	cagccccctc	tcctcaaac	caagggtaca	gatccccagc	ccctcctccc	900
tcagaccagc	gagtccagac	ccccagccc	ctctccctc	agaccagga	gtccagcccc	960
tcctccntca	gaccacggag	tcagacccc	ccagccctc	ctccctcaga	cccaggggtt	1020
gaggccccca	acccctcctc	cttcagagtc	agaggtccaa	gcccccaacc	cctcgttccc	1080
cagaccaga	ggtnnaggtc	ccagccctc	ttccntcaga	cccagnggtc	caatgccacc	1140
tagatttttc	ctgnacacag	tgcccccttg	tggnangttg	acccaacctt	accagttggt	1200
ttttcatttt	tngtcccttt	cccctagatc	cagaaataaa	gtttaagaga	ngngcaaaaa	1260
aaaaa						1265

<210> 174
 <211> 1459
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(1459)
 <223> n = A,T,C or G

<400> 174						
ggtcagccgc	acactgtttc	cagaagtgag	tgcagagctc	ctacaccatc	gggctggggc	60
tgcacagtct	tgaggccgac	caagagccag	ggagccagat	ggtggaggcc	agcctctccg	120
tacggcaccc	agagtacaac	agacccttgc	tcgctaacga	cctcatgctc	atcaagttgg	180
acgaatccgt	gtccgagtc	gacaccatcc	ggagcatcag	cattgcttcg	cagtgcctta	240
ccgcggggaa	ctcttgccctc	gtttctggct	ggggctctgt	ggcgaacggt	gagctcacgg	300
gtgtgtgtct	gcccctcttca	aggaggtcct	ctgcccagtc	gcgggggctg	acccagagct	360
ctgctgccca	ggcagaatgc	ctaccgtgct	gcagtgcgtg	aacgtgtcgg	tggtgtctga	420
ngaggtctgc	antaagctct	atgaccgcgt	gtaccacccc	ancatgttct	gcgccggcgg	480
agggcaagac	cagaaggact	cctgcaacgt	gagagagggg	aaaggggagg	gcaggcgact	540
cagggaaggg	tggagaaggg	ggagacagag	acacacaggg	ccgcatggcg	agatgcagag	600
atggagagac	acacagggag	acagtgacaa	ctagagagag	aaactgagag	aaacagagaa	660
ataaacacag	gaataaagag	aagcaaagga	agagagaaac	agaaacagac	atggggaggc	720
agaaacacac	acacatagaa	atgcagttga	ccttccaaca	gcatggggcc	tgagggcggt	780
gacctccacc	caatagaaaa	tcctcttata	acttttgact	ccccaaaaac	ctgactagaa	840
atagcctact	gttgacgggg	agccttacca	ataacataaa	tagtcgattt	atgcatacgt	900
tttatgcatt	catgatatac	ctttgttgga	attttttgat	atctctaagc	tacacagttc	960
gtctgtgaat	tttttttaaat	tgttgcaact	ctcctaaaaat	ttttctgatg	tgtttattga	1020
aaaaatccaa	gtataagtgg	acttggtgcat	tcaaacaccag	gttggttcaag	ggtcaactgt	1080
gtaccacagag	ggaaacagtg	acacagattc	atagaggtga	aacacgaaga	gaaacaggaa	1140
aatcaagac	tctacaaaga	ggctgggcag	ggtggctcat	gcctgtaatc	ccagcacttt	1200
gggagggcag	gcaggcagat	cacttgaggt	aaggagttca	agaccagcct	ggccaaaatg	1260
gtgaaatcct	gtctgtacta	aaaatacaaa	agttagctgg	atatggtggc	aggcgccgtg	1320
aatcccagct	acttgggagg	ctgaggcagg	agaattgctt	gaatatggga	ggcagaggtt	1380

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gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaaa aaaaaaaaaa 1459

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<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

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<400> 175
gcgcagccct ggcaggcggc actggtcatg gaaaaaagaat tgttctgctc gggcgctcctg 60
gtgcacccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc 240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 300
tgccctaccg cggggaactc ttgcctcgtc tctggctggg gtctgctggc gaacggcaga 360
atgcctaccg tgctgcactg cgtgaacgtg tcggtggtgt ctgaggangt ctgcagtaag 420
ctctatgacc cgctgtacca ccccagcatg ttctgcgcgc gcgaggggca agaccagaag 480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc caggtgtcta caccaacctc 600
tgcaaattca ctgagtggtat agagaaaacc gtccagncca gtttaactctg gggactggga 660
acccatgaaa ttgaccccca aatacatcct gcggaangaa ttcaggaata tctgttccca 720
gcccctcctc cctcaggccc aggagtccag gccccagcc cctcctccct caaaccagg 780
gtacagatcc ccagccccc ctcctcaga cccaggagtc cagacccccc agccccctnt 840
ccntcagacc caggagtcca gcccctcctc cntcagacgc aggagtccag accccccagc 900
ccntcntccg tcagacccag ggggtcaggc ccccaacccc tcntcntca gagtcaagg 960
tccaagcccc caaccctcg ttcccagac ccagaggtnc aggtcccagc ccctcctccc 1020
tcagacccag cgggtccaatg ccacctagan tntcctgta cacagtgcc ccttgtggca 1080
ngttgacca acctaccag ttggtttttc atttttgtc cctttcccct agatccagaa 1140
ataaagtnta agagaagcgc aaaaaaa 1167

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<210> 176
<211> 205
<212> PRT
<213> Homo sapien

<220>
<221> VARIANT
<222> (1)...(205)
<223> Xaa = Any Amino Acid

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<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
1 5 10 15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
20 25 30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
35 40 45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
50 55 60

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Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
65 70 75 80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
85 90 95
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met
100 105 110
Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val
115 120 125
Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala
130 135 140
Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly
145 150 155 160
Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys
165 170 175
Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys
180 185 190
Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser
195 200 205

<210> 177

<211> 1119

<212> DNA

<213> Homo sapien

<400> 177

gcgcaactcgc	agccctggca	ggcggcactg	gtcatggaaa	acgaattgtt	ctgctcgggc	60
gtcctgtgtgc	atccgcagtg	ggtgctgtca	gcgcacact	gtttccagaa	ctcctacacc	120
atcgggttg	gctgcacag	tcttgaggcc	gaccaagagc	caggagacca	gatggtggag	180
gccagcctct	ccgtacggca	cccagagtac	aacagaccct	tgctcgctaa	cgacctcatg	240
ctcatcaagt	tggacgaatc	cgtgtccgag	tctgacacca	tccggagcat	cagcattgct	300
tgcagtgcc	ctaccgcggg	gaactcttgc	ctcgtttctg	gctgggggtct	gctggcgaaac	360
gatgctgtga	ttgccatcca	gtcccagact	gtgggaggct	gggagtggtga	gaagctttcc	420
caaccctggc	agggttgtac	catttcggca	acttccagt	caaggacgtc	ctgctgcac	480
ctcactgggt	gctcactact	gctcactgca	tcaccoggaa	caactgtgatc	aactagccag	540
caccatagtt	ctccgaagtc	agactatcat	gattactgtg	ttgactgtgc	tgtctattgt	600
actaaccatg	ccgatgttta	ggtgaaatta	gcgtcacttg	gcctcaacca	tcttggtatc	660
cagttatcct	cactgaattg	agatttcctg	cttcagtgtc	agccattccc	acataatttc	720
tgacctacag	agggtgagga	tcatatagct	cttcaaggat	gctggtactc	ccctcacaaa	780
ttcatttctc	ctgttgtagt	gaaaggtgcg	ccctctggag	cctcccagg	tgggtgtgca	840
ggtcacaatg	atgaatgtat	gacgtgttc	ccattaccca	aagcctttaa	atccctcatg	900
ctcagtacac	cagggcagg	ctagcatttc	ttcatttagt	gtatgctgtc	cattcatgca	960
accacctcag	gactcctgga	ttctctgcct	agttgagctc	ctgcatgctg	cctccttggg	1020
gaggtgagg	agagggccca	tggttcaatg	ggatctgtgc	agttgtaaca	cattaggtgc	1080
ttaataaaca	gaagctgtga	tgttaaaaaa	aaaaaaaaa			1119

<210> 178

<211> 164

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(164)

<223> Xaa = Any Amino Acid

[illegible]

<211> 250

<213> Hom

ctggagtgcc	ttggtgtttc	aagccctgc	aggaagcaga	atgcaccttc	tgaggcacct	60
ccagctgcc	ccggccgggg	gatgcgaggc	tcggagcacc	cttgcccggc	tgtgattgct	120
gccaggcacat	gttcattctca	gctttttctgt	ccctttgctc	cgggcaagcg	cttctgctga	180
aagtttcaat	ctggagcctg	atgtcttaac	gaataaaggt	cccattgctc	acccgaaaaa	240
aaaaaaaaaa						250

<211> 202

<213> Hom

actagtccag	tgtggtggaa	ttccattgtg	ttgggcccaa	cacaatggct	acctttaaca	60
tcacccagac	ccgcccctg	cccggtcccc	acgctgctgc	taacgacagt	atgatgctta	120
ctctgctact	cggaaactat	ttttatgtaa	ttaatgtatg	ctttcttggt	tataaatgcc	180
tgatttaaaa	aaaaaaaaaa	aa				202

<211> 558

<212> DNA

<213> Homo sapien

<2.2.0>

<221> misc_feature
 <222> (1)...(558)
 <223> n = A,T,C or G

<400> 181
 tccyttttgkt naggttttkkg agacamccck agacctwaan ctgtgtcaca gacttcyngg 60
 aatgttttagg cagtgcctagt aatttcytcg taatgattct gttattactt tcctnattct 120
 ttattcctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa 180
 ggtagtgtga tagtataagt atctaagtgc agatgaaagt gtgttatata tatccattca 240
 aaattatgca agttagtaat tactcagggt taactaaatt actttaatat gctgttgaac 300
 ctactctggt ccttggctag aaaaaattat aaacaggact ttgttagttt gggaagccaa 360
 attgataata ttctatgttc taaaagttgg gctatacata aattattaag aaatatggaw 420
 ttttattccc aggaatatgg kgttcatttt atgaatatta cscrggatag awgtwtgagt 480
 aaaaycagtt ttggtwaata ygtwaatat tcmtaaataa acaakgcttt gacttatttc 540
 caaaaaaaaa aaaaaaaaa 558

<210> 182
 <211> 479
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

<400> 182
 acagggwttk grggatgcta agsccccrga rwtlygtttga tccaaccctg gcttwttttc 60
 agaggggaaa atggggccta gaagttacag mscatytagy tgggtgcgmg gcacccctgg 120
 cstcacacag astcccgagt agctgggact acaggcacac agtcactgaa gcaggccctg 180
 ttwgcaattc acgttgccac ctccaactta aacattcttc atatgtgatg tccttagtca 240
 ctaagggttaa actttcccac ccagaaaagg caacttagat aaaatcttag agtactttca 300
 tactmttcta agtcctcttc cagcctcact kkgagtcctm cytggggggt gataggaant 360
 ntctcttggc tttctcaata aartctctat ycatctcatg ttttaatttg tacgcatara 420
 awtgstgara aaattaaaaat gttctggtty macttttaaaa aaaaaaaaaa 479

<210> 183
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 183
 aggggggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
 agtaccagta ccaataacag tgccagtgcc agtgccagca ccagtgggtg cttcagtgtc 120
 ggtgccagcc tgaccgccac tctcacattt gggctcttcg ctggccttgg tggagctggt 180
 gccagcacca gtggcagctc tgggtgcctgt ggtttctcct acaagtgaga ttttagatat 240
 tggttaatcct gccagtcttt ctcttcaagc cagggtgcat cctcagaaac ctactcaaca 300
 cagcactcta ggcagccact atcaatcaat tgaagttgac actctgcatt aratctattt 360
 gccattttcaa aaaaaaaaaa aaaa 384

<210> 184
 <211> 496
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(496)
 <223> n = A,T,C or G

<400> 184
 accgaattgg gaccgctggc ttataagcga tcatgtyynt ccrgtatkac ctcaacgagc 60
 agggagatcg agtctatacg ctgaagaaat ttgacccgat gggacaacag acctgctcag 120
 cccatcctgc tcggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga 180
 aacgcttcaa ggtgctcatg acccagcaac cgcgccctgt cctctgaggg tcccttaaac 240
 tgatgtcttt tctgccacct gttaccctc ggagactccg taaccaaact ctccggactg 300
 tgagccctga tgcctttttg ccagccatac tctttggcat ccagtctctc gtggcgattg 360
 attatgcttg tgtgaggcaa tcatgggtggc atcaccata aagggaacac atttgacttt 420
 tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst 480
 taaaaaaaaa aaaaaa 496

<210> 185
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 185
 gctggtagcc tatggcgkkg cccacggagg ggctcctgag gccacggrac agtgacttcc 60
 caagtatcyt gcgsgcgtc ttctaccgtc cctacctgca gatcttcggg cagattcccc 120
 aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggttct 180
 gggcacaccc tctgggggcc caggcgggca cctgcgtctc ccagtatgcc aactggctgg 240
 tgggtgctgct cctcgtcatc ttctgctcg tggccaacat cctgctggtc aacttgctca 300
 ttgccatgtt cagttacaca ttgggcaaag tacaggggcaa cagcgatctc tactgggaag 360
 ggcgagcgtt accgcctcat ccgg 384

<210> 186
 <211> 577
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(577)
 <223> n = A,T,C or G

<400> 186
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggctctcgc ttcataccgc 60
 tnccatcgctc atactgtagg ttggccacca cytcctggca tcttggggcg gcntaatatt 120
 ccaggaaact ctcaatcaag tcaccgtcga tgaacctgt gggctgggtc tgtcttccgc 180
 togggtgtgaa aggatctccc agaaggagtg ctcgatctc cccacacttt tgatgacttt 240
 attgagtcga ttctgcatgt ccagcaggag gttgtaccag ctctctgaca gtgaggtcac 300
 cagccctatc atgccgttga mcgtgccgaa garcaccgag ccttgtgtgg gggkkaagt 360
 ctcacccaga ttctgcatta ccagagagcc gtggcaaaaag acattgacaa actcgcccag 420
 gtggaaaaag amcamctcct ggargtgctn gccgtcctc gtcmgttggg ggcagcgctw 480
 tccttttgac acacaaacaa gttaaaggca tttcagccc ccagaaantt gtcatcatcc 540
 aagatntcgc acagactna tccagttggg attaaat 577

<210> 187

<211> 534
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(534)
 <223> n = A,T,C or G

<400> 187
 aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgstg agaatycatw 60
 actkggaaaa gmaacattaa agcctggaca ctggtattaa aattcacaat atgcaacact 120
 ttaaacagtg tgtcaatctg ctcccyynac tttgtcatca ccagtctggg aakaagggta 180
 tgccctattc acacctgtta aaagggcgct aagcattttt gattcaacat cttttttttt 240
 gacacaagtc cgaaaaaagc aaaagtaaac agttatyaat ttgttagcca attcactttc 300
 ttcattggac agagccatyt gatttaaaaa gcaaatgca taatattgag cttygggagc 360
 tgatatttga gcggaagagt agcctttcta cttcaccaga cacaactccc tttcatattg 420
 ggatgttnac naaagtwatg tctctwacag atgggatgct tttgtggcaa ttctgttctg 480
 aggatctccc agtttattta ccacttgac aagaaggcgt tttcttctc aggc 534

<210> 188
 <211> 761
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(761)
 <223> n = A,T,C or G

<400> 188
 agaaaccagt atctctnaaa acaacctctc ataccttggtg gacctaatTT tgtgtgcgtg 60
 tgtgtgtgcg cgcatattat atagacaggc acatcttttt tacttttgta aaagcttatg 120
 cctcttttgt atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct 180
 ttgtcttctg tgtaaatggg actagagaaa acacctatnt tatgagtcaa tctagttngt 240
 tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc ctkgackarg 300
 ggggacaaaag aaaagcaaaa ctgamcataa raaacaatwa cctgggtgaga arttgcataa 360
 acagaaatwr ggtagtatat tgaarnacag catcattaaa rmgttwtktt wttctccctt 420
 gcaaaaaaca tgtaengact tcccgttgag taatgccaaag ttgttttttt tatnataaaa 480
 cttgcccttc attacatgtt tnaaagtggg gtgggtgggcc aaaatattga aatgatggaa 540
 ctgactgata aagctgtaca aataagcagt gtgcctaaca agcaacacag taatgttgac 600
 atgcttaatt cacaaatgct aatttcatta taaatgtttg ctaaaataca ctttgaacta 660
 tttttctgtn ttcccagagc tgagatntta gattttatgt agtatnaagt gaaaaantac 720
 gaaaataata acattgaaga aaaaananaaa aaanaaaaaa a 761

<210> 189
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 189
 tttttttttt tttgccgatn ctactatntt attgcaggan gtgggggtgt atgcaccgca 60
 caccggggct atnagaagca agaaggaagg agggagggca cagccccttg ctgagcaaca 120
 aagccgcctg ctgccttctc tgtctgtctc ctggtgcagg cacatgggga gaccttcccc 180
 aaggcagggg ccaccagtcc aggggtggga atacaggggg tgggangtgt gcataagaag 240
 tgataggcac aggccacccg gtacagaccc ctcggtcctt gacaggtnga tttcgaccag 300
 gtcattgtgc cctgcccagg cacagcgtan atctggaaaa gacagaatgc tttccttttc 360
 aaatttggt ngtcatngaa ngggcanttt tccaanttng gctnggtctt ggtacncttg 420
 gttcggccca gctcncgtc caaaaantat tcaccnctt ccnaattgct tgcnngnccc 480
 cc 482

<210> 190
 <211> 471
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(471)
 <223> n = A,T,C or G

<400> 190
 tttttttttt ttttaaaaca gtttttcaca aaaaaattta ttagaagaat agtggttttg 60
 aaaactctcg catccagtga gaactacat acaccacatt acagctngga atgtntcca 120
 aatgtctggt caaatgatac aatggaacca ttcaatctta cacatgcacg aaagaacaag 180
 cgcttttgac atacaatgca caaaaaaaaa aggggggggg gaccacatgg attaaaattt 240
 taagtactca tcacatacat taagacacag ttctagtcca gtcnaaaatc agaactgcnt 300
 tgaaaaattt catgtatgca atccaaccaa agaacttnat tgggtgatcat gantnctcta 360
 ctacatcnac ctgtatcatt gccaggaacn aaaagttnaa ancacncngt acaaaaanaa 420
 tctgtaattn anttcaacct ccgtacngaa aaatnttntt tatacactcc c 471

<210> 191
 <211> 402
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(402)
 <223> n = A,T,C or G

<400> 191
 gagggattga aggtctgttc tastgtcggm ctgttcagcc accaactcta acaagttgct 60
 gtcttccact cactgtctgt aagcttttta acccagacwg tatcttcata aatagaacaa 120
 attcttcacc agtcacatct tctaggacct ttttggatto agttagtata agctcttcca 180
 cttcctttgt taagacttca tctggttaaag tcttaagttt tgtagaaagg aattyaattg 240
 ctcgttctct aacaatgtcc tctccttgaa gtatttggct gaacaacca cctaaagtcc 300
 ctttgtgcat ccattttaaa tatacttaat agggcattgk tncactaggt taaattctgc 360
 aagagtcatc tgtctgcaaa agttgcgtta gtatatctgc ca 402

<210> 192
 <211> 601
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(601)

<223> n = A,T,C or G

<400> 192

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggtctacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcytyttt	gaytaccgtg	tgccaagtgc	tggtgattct	yaacacacyt	ccatcccgyt	180
cttttgtgga	aaaactggca	cttkcttgga	actagcarga	catcacttac	aaattcaccc	240
acgagacact	tgaaagggtg	aacaaagcga	ytcttgcat	gctttttgtc	cctccggcac	300
cagttgtcaa	tactaaccgc	ctggtttgcc	tccatcacat	ttgtgatctg	tagctctgga	360
tacatctcct	gacagtactg	aagaacttct	tcttttgttt	caaaagcarc	tcttggtgcc	420
tggtggatca	ggttcccat	tcccagtcyg	aatgttcaca	tggcataatt	wacttcccac	480
aaaacattgc	gatttgaggc	tcagcaacag	caaatcctgt	tccggcattg	gctgcaagag	540
cctcgatgta	gccggccagc	gccaaaggcag	gcgccgtgag	ccccaccagc	agcagaagca	600
g						601

<210> 193

<211> 608

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(608)

<223> n = A,T,C or G

<400> 193

atacagccca	natcccacca	cgaagatgcg	cttggtgact	gagaacctga	tgcggtcact	60
ggtcccgtcg	tagccccagc	gactctccac	ctgctggaag	cggttgatgc	tgactcyyt	120
cccaacgcag	gcagmagcgg	gscgggtcaa	tgaactccay	tcgtggcttg	gggtkgacgg	180
tkaagtgcag	gaagaggctg	accacctcgc	ggtccaccag	gatgcccagc	tgtgcgggac	240
ctgcagcgaa	actcctcgat	ggatcatgagc	gggaagcgaa	tgaggcccag	ggccttgccc	300
agaaccttcc	gcctgtttct	tggtgctcacc	tgcatgctgt	gccgctgaca	ctcggcctcg	360
gaccagcggg	caaacggcrt	tgaacagccg	cacctcacgg	atgccagctg	tgctgcgctc	420
caggammgsc	accagcgtgt	ccaggtcaat	gtcgggtgaag	ccctccgctg	gtrattggcgt	480
ctgcagtgtt	tttgtcgatg	ttctccaggc	acaggctggc	cagctgcggt	tcattcgaaga	540
gtcgcgcctg	cgtgagcagc	atgaaggcgt	gtcgcgctcg	cagttcttct	tcagggaactc	600
cacgcaat						608

<210> 194

<211> 392

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(392)

<223> n = A,T,C or G

<400> 194

```

gaacggctgg accttgccctc gcattgtgct tgctggcagg gaataccttg gcaagcagyt      60
ccagtcgag cagccccaga ccgctgccgc ccgaagctaa gcctgcctct ggccctcccc      120
tccgcctcaa tgcagaacca gtagtgggag cactgtgttt agagttaaga gtgaacactg      180
tttgatttta cttgggaatt tcctctgtta tatagctttt cccaatgcta atttccaaac      240
aacaacaaca aaataacatg tttgcctgtt aagttgtata aaagtaggtg attctgtatt      300
taaagaaaat attactgtta catatactgc ttgcaatttc tgtatttatt gktnctstgg      360
aaataaatat agttattaaa ggttgtcant cc                                     392

```

```

<210> 195
<211> 502
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(502)
<223> n = A,T,C or G

```

```

<400> 195
ccsttkgagg ggkagggkyc cagttyccga gtggaagaaa caggccagga gaagtgcgtg      60
ccgagctgag gcagatgttc ccacagtgc cccagagcc stgggstata gtytctgacc      120
cctcncaagg aaagaccacs ttctggggac atgggctgga gggcaggacc tagaggcacc      180
aaggggaagg cccattccgg ggstgttccc cgaggaggaa ggggaagggg tctgtgtgcc      240
ccccasgagg aagaggccct gagtcctggg atcagacacc ccttcacgtg tatccccaca      300
caaatgcaag ctcaccaagg tcccctctca gtccccttcc stacaccctg amcggccact      360
gscscacacc caccagagc acgccaccgc ccatggggar tgtgctcaag gartcgcnng      420
gcarcgtgga catctngtcc cagaaggggg cagaatctcc aatagangga ctgarcmstt      480
gctnanaaaa aaaaanaaaa aa                                     502

```

```

<210> 196
<211> 665
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(665)
<223> n = A,T,C or G

```

```

<400> 196
ggttacttgg ttccattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc      60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt      120
wagctgtttk gaggttgatts gcaccactgc acccacaact tcaatatgaa aacyawttga      180
actwatthtat tatcttgtga aaagtataac aatgaaaatt ttgttcatac tgtattkac      240
aagtatgatg aaaagcaawa gatatatatt cttttattat gttaaattat gattgccatt      300
attaatcggc aaaaatgtga gtgtatgttc ttttcacagt aatatatgcc ttttgtaact      360
tcacttggtt attttattgt aaatgartta caaaattctt aatttaagar aatggtagt      420
watatttatt tcattaattt ctttcctkgt ttacgtwaat tttgaaaaga wtgcatgatt      480
tcttgacaga aatcgatctt gatgctgtgg aagtagtttg acccacatcc ctatgagttt      540
ttcttagaat gtataaaggt ttagcccat cnaacttcaa agaaaaaaat gaccacatac      600
tttgcaatca ggctgaaatg tggcatgctn ttctaattcc aactttataa actagcaaan      660
aagtg                                             665

```

```

<210> 197

```

<211> 492
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(492)
 <223> n = A,T,C or G

<400> 197
 tttntttttt ttttttttgc aggaaggatt ccattttattg tggatgcatt ttcacaatat 60
 atgttttattg gagcgatcca ttatcagtga aaagtatcaa gtgtttataa natttttagg 120
 aaggcagatt cacagaacat gctngtcngc ttgcagtttt acctcgтана gatnacagag 180
 aattatagtc naaccagtaa acnaggaatt tacttttcaa aagattaaat ccaaactgaa 240
 caaaattcta ccctgaaact tactccatcc aaatattgga ataanagtca gcagtgatac 300
 attctcttct gaactttaga ttttctagaa aaatatgtaa tagtgatcag gaagagctct 360
 tgttcaaaag tacaacnaag caatgttccc ttaccatagg ccttaattca aactttgatc 420
 catttcactc ccatcacggg agtcaatgct acctgggaca cttgtatttt gttcatnctg 480
 ancntggctt aa 492

<210> 198
 <211> 478
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(478)
 <223> n = A,T,C or G

<400> 198
 tttntttttgn atttcantct gtannaanta ttttcattat gtttattana aaaatatnaa 60
 tgtntccacn acaaatcatn ttacntnagt aagaggccan ctacattgta caacatacac 120
 tgagtatatt ttgaaaagga caagttttaa gtanacncat attgccganc atancacatt 180
 tatacatggc ttgattgata tttagcacag canaaactga gtgagttacc agaaanaaat 240
 natatatgtc aatcngattt aagatacaaa acagatccta tggtagatan catcntgtag 300
 gagttgtggc tttatgttta ctgaaagtca atgcagttcc tgtacaaaga gatggccgta 360
 agcattctag tacctctact ccattgttaa gaatcgtaca cttatgttta catatgtnc 420
 gggtaagaat tgtgttaagt naanttatgg agaggccan gagaaaaatt tgatncaa 478

<210> 199
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 199
 agtgacttgt cctccaacaa aaccoccttga tcaagtttgt ggcactgaca atcagaccta 60
 tgctagttcc tgtcatctat tcgtactaa atgcagactg gaggggacca aaaaggggca 120
 tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga 180

```
<210> 200
<211> 270
<212> DNA
<213> Homo sapien
```

<400>	200						
gcaag	tgcaactcca	gctggggccg	tgcggacgaa	gattctgcca	gcagttggtc		60
gcgac	gacggcggcg	gcgacagtcg	caggtgcagc	gcggggcgct	ggggtcttgc		120
tgagc	tgacgcgcga	gaggtcgtgt	cacgtcccac	gaccttgacg	ccgtcgggga		180
ggaac	agagccgggt	gaangcggga	ggcctcgggg	agccccctcg	gaaggcggc		240
agata	cgcaggtgca	ggtggccgcc					270

```
<210> 201
<211> 419
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(419)  
<223> n = A,T,C or G
```

<400> 201						
tttttttttt	ttttggaatc	tactgcgagc	acagcaggtc	agcaacaagt	ttatttttgca	60
gctagcaagg	taacagggta	gggcatgggt	acatgttcag	gtcaacttcc	tttgtcgtgg	120
ttgattgggt	tgtctttatg	ggggcggggg	ggggtagggy	aaancgaagc	anaantaaca	180
tggagtgggg	gcacctccc	tgtagaacct	ggttacnaaa	gctttggggc	gttcacctgg	240
tcctgtaccg	tcatttttct	gacatcaatg	ttattagaag	tcaggatatc	ttttagagag	300
tccactgtnt	ctggaggggt	attagggttt	cttgccaana	tccaancaaa	atccantga	360
aaaagttgga	tgatncangt	acngaatacc	ganggcatan	ttctcatant	cggtggcca	419

```
<210> 202
<211> 509
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(509)  
<223> n = A,T,C or G
```



```

ttnttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt      60
tggcacttaa tccattttta tttcaaaatg tctacaaant ttnaatncnc cattatacng      120
gtnattttnc aaaatctaaa nnttattcaa atntnagcca aantccttac ncaaatnnaa      180
tacnncnaaa aatcaaaaaat atacntntct ttcagcaaac ttngttacat aaattaaanaa      240
aatatatacg gctggtgttt tcaaagtaca attatcttaa cactgcaaac atnttttnaa      300
ggaactaaaa taaaaaaaaa cactnccgca aaggttaaag ggaacaacaa attcntttta      360
caacancnnc nattataaaa atcatatctc aaatcttagg ggaatatata cttcacacng      420
ggatcttaac ttttactnca ctttggttat ttttttanaa ccattgtntt gggcccaaca      480
caatggnaat nccnccnncn tggactagt                                     509

```

```

<210> 203
<211> 583
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(583)
<223> n = A,T,C or G

```

```

<400> 203
tttttttttt ttttttttga cccccctctt ataaaaaaca agttaccatt ttattttact      60
tacacatatt tattttataa ttggtattag atattcaaaa ggcagctttt aaaatcaaac      120
taaagtggaaa ctgccttaga tacataattc ttaggaatta gcttaaaatc tgcctaaagt      180
gaaaatcttc tctagctctt ttgactgtaa atttttgact ctgtgaaaac atccaaattc      240
atttttcttg tctttaaaat tatctaattc ttccattttt tccctatttc aagtcaattt      300
gcttctctag cctcatttcc tagctcttat ctactattag taagtggctt ttttcctaaa      360
agggaaaaca ggaagagana atggcacaca aaacaaacat tttatattca ttttctacc      420
tacgttaata aaatagcatt ttgtgaagcc agctcaaaag aaggcttaga tccttttatg      480
tccatttttag tcaactaaacg atatcnaaag tgccagaatg caaaagggtt gtgaacattt      540
attcaaaagc taatataaga tatttcacat actcatcttt ctg                                     583

```

```

<210> 204
<211> 589
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(589)
<223> n = A,T,C or G

```

```

<400> 204
ttttttttnt tttttttttt ttttttnctc ttcttttttt ttganaatga ggatcgagtt      60
tttactctc tagatagggc atgaagaaaa ctcatctttc cagcttttaa ataacaatca      120
aatctcttat gctatatcat attttaagtt aaactaatga gtcactggct tatcttctcc      180
tgaaggaaat ctgttcattc ttctcattca tatagttata tcaagtacta ccttgcatat      240
tgagaggttt ttcttctcta tttacacata tatttccatg tgaatttgta tcaaaccttt      300
attttcatgc aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag      360
cattacaaaa ctgctcaaat tgtttggttaa gnttatccat tataattagt tnggcaggag      420
ctaatacaaa tcacatttac ngacnagcaa taataaaact gaagtaaccag ttaaatatcc      480
aaaataatta aaggaacatt tttagcctgg gtataattag ctaattcaot ttacaagcat      540
ttattnagaa tgaattcaca tgttattatt cntagccca acacaatgg                                     589

```

<210> 205
 <211> 545
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(545)
 <223> n = A,T,C or G

<400> 205

tttttntttt	ttttttcagt	aataatcaga	acaatattta	tttttatatt	taaaattcat	60
agaaaagtgc	cttacattta	ataaaaagttt	gtttctcaaa	gtgatcagag	gaattagata	120
tngtcttgaa	caccaatatt	aatttgagga	aaatacacca	aaatacatta	agtaaattat	180
ttaagatcat	agagcttgta	agtgaaaaga	taaaatttga	cctcagaaac	tctgagcatt	240
aaaaatccac	tattagcaaa	taaattacta	tggacttcct	gctttaattt	tgtgatgaat	300
atggggtgtc	actggtaaac	caacacattc	tgaaggatac	attacttagt	gatagattct	360
tatgtacttt	gctanatnac	gtggatatga	gttgacaagt	ttctctttct	tcaatctttt	420
aaggggcnga	ngaaatgagg	aagaaaagaa	aaggattacg	catactgttc	tttctatngg	480
aaggattaga	tatgtttcct	ttgccaatat	taaaaaaata	ataatgttta	ctactagtga	540
aacc						545

<210> 206
 <211> 487
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(487)
 <223> n = A,T,C or G

<400> 206

tttttttttt	tttttttagtc	aagtttctna	tttttattat	aattaaagtc	ttggtcattt	60
catttattag	ctctgcaact	tacatatatta	aattaaagaa	acgttnttag	acaactgtna	120
caatttataa	atgtaagggtg	ccattattga	gtanatata	tcctccaaga	gtggatgtgt	180
cccttctccc	accaactaat	gaancagcaa	cattagttta	attttattag	tagatnatac	240
actgctgcaa	acgctaattc	tcttctccat	ccccatgtn	atattgtgta	tatgtgtgag	300
ttggtagnaa	tgcatcanca	atctnacaat	caacagcaag	atgaagctag	gcntgggctt	360
tcggtgaaaa	tagactgtgt	ctgtctgaat	caaatgatct	gacctatcct	cgggtggcaag	420
aactcttcga	accgcttcct	caaaggcngc	tgccacattt	gtggcntctn	ttgcacttgt	480
ttcaaaa						487

<210> 207
 <211> 332
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

<400> 207

tgaattggct	aaaagactgc	atttttanaa	ctagcaactc	ttatttcttt	cctttaaaaa	60
tacatagcat	taaatcccaa	atcctattta	aagacctgac	agcttgagaa	ggtcactact	120
gcatttatag	gaccttctgg	tggttctgct	gttacntttg	aantctgaca	atccttgana	180
atctttgcat	gcagaggagg	taaaaggtat	tggattttca	cagaggaana	acacagcgca	240
gaaatgaagg	ggccaggctt	actgagcttg	tccactggag	ggctcatggg	tgggacatgg	300
aaaagaaggc	agcctaggcc	ctggggagcc	ca			332

<210> 208
 <211> 524
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(524)
 <223> n = A,T,C or G

<400> 208						
agggcggtgt	gcggaggggc	ttactgtttt	gtctcagtaa	caataaatac	aaaaagactg	60
gttgtgttcc	ggcccccatt	aaccacgaag	ttgattttct	ttgtgtgcag	agtgactgat	120
tttaaaggac	atggagcttg	tcacaatgtc	acaatgtcac	agtgtgaagg	gcacactcac	180
tcccgcggtg	ttcacattta	gcaaccaaca	atagctcatg	agtccatact	tgtaataact	240
tttggcagaa	tacttnttga	aacttgcaga	tgataactaa	gatccaagat	atttcccaaa	300
gtaaatagaa	gtgggtcata	atattaatta	cctgttcaca	tcagcttcca	tttacaagtc	360
atgagccag	acactgacat	caaactaagc	ccacttagac	tcctcaccac	cagtctgtcc	420
tgtcatcaga	caggaggctg	tcaccttgac	caaattctca	ccagtcaatc	atctatccaa	480
aaaccattac	ctgatccact	tccggtaatg	caccaccttg	gtga		524

<210> 209
 <211> 159
 <212> DNA
 <213> Homo sapien

<400> 209						
gggtgaggaa	atccagagtt	gccatggaga	aaattccagt	gtcagcattc	ttgtctccttg	60
tggccctctc	ctacactctg	gccagagata	ccacagtcaa	acctggagcc	aaaaaggaca	120
caaaggactc	tcgacccaaa	ctgcccaga	cctctcca			159

<210> 210
 <211> 256
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(256)
 <223> n = A,T,C or G

<400> 210						
actccctggc	agacaaaggc	agaggagaga	gctctgttag	ttctgtgttg	ttgaactgcc	60
actgaatttc	tttccaactg	gactattaca	tgccanttga	gggactaatg	gaaaaacgta	120
tggggagatt	ttanccaatt	tangtntgta	aatggggaga	ctggggcagg	cgggagagat	180
ttgcagggtg	naaatgggan	ggctggtttg	ttanatgaac	agggacatag	gaggtaggca	240
ccaggatgct	aatca					256

<210> 211
 <211> 264
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 211
 acattgtttt tttagataa agcattgaga gagctctcct taacgtgaca caatggaagg 60
 actggaacac ataccacacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180
 ggggagatac attcngaaag aggactgaaa gaaataactca agtnggaaaa cagaaaaaga 240
 aaaaaaggag caaatgagaa gcct 264

<210> 212
 <211> 328
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 212
 acccaaaaaat ccaatgctga atatttggtc tcattattcc canattcttt gattgtcaaa 60
 ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120
 gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccggcag 180
 ttnaatttca ttcccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta 240
 cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag ctgggccaca 300
 tttttttttc ctttattcct ttgtcaga 328

<210> 213
 <211> 250
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 213
 acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
 cattatgcc aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt 180
 ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatatc tctctnacct 240
 tctcatcggt 250

<210> 214

<211> 444
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = A,T,C or G

<400> 214
 acccagaatc caatgctgaa tatttggctt cattattccc agattctttg attgtcaaag 60
 gatttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg 120
 tttatatatg cagcaacaat attcaagcgc gacaacagggt tattgaactt gcccgccagt 180
 tgaatttcat tcccattgac ttgggacccct tatcatcagc canagagatt gaaaatttac 240
 ccctacgact ctttactctc tggagagggc cagtgggtggg agctataagc ttggccacat 300
 ttttttttcc tttattcctt tgtcagagat gcgattcctc catatgctan aaaccaacag 360
 agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt 420
 actttgctct ccctaataata cctc 444

<210> 215
 <211> 366
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(366)
 <223> n = A,T,C or G

<400> 215
 acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt 60
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
 cattatgcca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt 180
 ttcaatattt gcatgaacct gctgataagc catggtgaga aacaaatata tctctgacct 240
 tctcatcggg aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300
 tccaagctgt tttctacact gtaaccagggt ttccaaccaa ggtggaaatc tcctatactt 360
 ggtgcc 366

<210> 216
 <211> 260
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(260)
 <223> n = A,T,C or G

<400> 216
 ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgtc 60
 caagacaggg gcctaaggag ggtctccaca ctgctnntaa gggtnttnc atttttttat 120
 taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa 180
 atcaaaaatt tcctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat 240
 aattcttcc tccctccttt 260

<210> 217
 <211> 262
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 217
 acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60
 tcttgccctat aattttctat tttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120
 ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180
 atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240
 atatccttca tgcttgtaaa gt 262

<210> 218
 <211> 205
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(205)
 <223> n = A,T,C or G

<400> 218
 accaaggtgg tgcattaccg gaantggatc aangacacca tegtggccaa cccctgagca 60
 cccctatcaa ctcccttttg tagtaaaactt ggaaccttgg aaatgaccag gccaaagactc 120
 aggccctccc agttctactg acctttgtcc ttangtntna ngtcagggt tgctaggaaa 180
 anaaatcagc agacacaggt gtaaa 205

<210> 219
 <211> 114
 <212> DNA
 <213> Homo sapien

<400> 219
 tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60
 accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220
 <211> 93
 <212> DNA
 <213> Homo sapien

<400> 220
 actagccagc acaaaaggca gggtagcctg aattgctttc tgcctctttac atttctttta 60
 aaataagcat ttagtgetca gtccctactg agt 93

<210> 221
 <211> 167

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(167)
 <223> n = A,T,C or G

<400> 221
 actangtgca ggtgcgcaca aatatttgct gatattccct tcattcttga ttccatgagg 60
 tcttttgccc agcctgtggc tctactgtag taagtttctg ctgatgagga gccagnatgc 120
 cccccactac cttccctgac gctccccana aatcacccaa cctctgt 167

<210> 222
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 222
 agggcgtggt gcgaggggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60
 gttcttcacc tgtccccaa tccttaaaag gccatactgc ataaagtcaa caacagataa 120
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180
 ttttctcttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240
 taggtgagca tgattagaga gcttgtaggt tgcttttaca tatatctggc atatttgagt 300
 ctcgatcaaa aacaatagat tggtaaaggt ggtattattg tattgataag t 351

<210> 223
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 223
 aaaacaaaca aacaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60
 tggttaattat ggtcaattta atwrtrttkt ggggcatttc cttacattgt cttgacaaga 120
 ttaaaatgtc tgtgccaaaa ttttgatatt tatttggaaga cttcttatca aaagtaatgc 180
 tgccaaagga agtctaagga attagtagtg ttcccmtcac ttgtttggag tgtgctattc 240
 taaaagattt tgatttcctg gaatgacaat tatattttta ctttggtggg ggaaanagtt 300
 ataggaccac agtcttcact tctgatactt gtaaattaat cttttattgc acttgttttg 360
 accattaagc tatatgttta aaa 383

<210> 224
 <211> 320
 <212> DNA
 <213> Homo sapien

<400> 224
 cccctgaagg cttcttggtta gaaaatagta cagttacaac caataggaac aacaaaaaga 60
 aaaagtttgt gacattgtag tagggagtgt gtacccttta ctcccatca aaaaaaaaaat 120
 ggatacatgg ttaaaggata raagggaat attttatcat atgttctaaa agagaaggaa 180

gagaaaatac tacttttctc aaatggaagc ccttaaaggt gctttgatac tgaaggacac 240
 aaatgtggcc gtccatcctc ctttaragtt gcatgacttg gacacggtaa ctgttgagc 300
 ttaractcm gcattgtgac 320

<210> 225
 <211> 1214
 <212> DNA
 <213> Homo sapien

<400> 225
 gaggactgca gcccgcactc gcagccctgg caggcggcac tggatcatgga aaacgaattg 60
 ttctgctcgg gcgtcctggt gcatccgcag tgggtgctgt cagccgcaca ctgtttccag 120
 aactcctaca ccacgcggct gggcctgcac agtcttgagg ccgaccaaga gccagggagc 180
 cagatgggtg aggccagcct ctccgtacgg caccagagat acaacagacc cttgctcgct 240
 aacgacctca tgctcatcaa gttggacgaa tccgtgtccg agtctgacac catccggagc 300
 atcagcattg cttcgcagtg ccctaccgag gggaaactct gcctcgtttc tggctggggg 360
 ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg tgaacgtgtc ggtggtgtct 420
 gaggaggtct gcagtaagct ctatgaccgg ctgtaccacc ccagcatgtt ctgcgcgggc 480
 ggagggcaag accagaagga ctctgcgaac ggtgactctg gggggcccct gatctgcaac 540
 gggtaacttg agggccttgt gtctttcgga aaagccccgt gtggccaagt tggcgtgcc 600
 ggtgtctaca ccaacctctg caaattcact gagtggatag agaaaaccgt ccaggccagt 660
 taactctggg gactgggaac ccatgaaatt gacccccaaa tacatcctgc ggaaggaatt 720
 caggaatatc tgttcccagc ccctcctccc tcaggcccag gagtccaggc cccagcccc 780
 tctcctcctca aaccaagggt acagatcccc agccccctct cctcagacc caggagtcca 840
 gacccccag cccctcctcc ctccagacca ggagtccagc cctcctccc tcagaccag 900
 gagtccagac cccccagccc ctctcctc agaccagggt gtccaggccc ccaaccctc 960
 ctccctcaga ctccagaggt caagccccc acccctcctt cccagaccc agaggtccag 1020
 gtcccagccc ctctcctc agaccagcg gtccaatgcc acctagactc tccctgtaca 1080
 cagtgcctcc ttgtggcagc ttgacccaac cttaccagtt ggtttttcat tttttgtccc 1140
 tttcccttag atccagaaat aaagtctaag agaagcgcaa aaaaaaaaaa aaaaaaaaaa 1200
 aaaaaaaaaa aaaa 1214

<210> 226
 <211> 119
 <212> DNA
 <213> Homo sapien

<400> 226
 accagtatg tgcagggaga cggaacccca tgtgacagcc cactccacca gggttcccaa 60
 agaacctggc ccagtcataa tcattcatcc tgacagtggc aataatcacg ataaccagt 119

<210> 227
 <211> 818
 <212> DNA
 <213> Homo sapien

<400> 227
 acaattcata gggacgacca atgaggacag ggaatgaacc cggctctccc ccagccctga 60
 tttttgctac atatggggct ctttttcatt ctttgcaaaa aactggggtt ttctgagaac 120
 acggacgggt cttagcacia tttgtgaaat ctgtgtaraa ccgggctttg caggggagat 180
 aattttcctc ctctggagga aaggtggtga ttgacaggca gggagacagt gacaaggcta 240
 gagaaagcca cgctcggcct tctctgaacc aggatggaac ggcagacccc tgaaaacgaa 300
 gcttgctccc ttccaatcag ccacttctga gaaccccat ctaacttct actggaaaag 360
 agggcctcct caggagcagt ccaagagttt tcaaagataa cgtgacaact accatctaga 420

ggaaaagggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcggt	tccagagaca	480
acctgctggc	tgtcttggga	tgcgcccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600
gacaggctct	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtcgtgt			818

<210> 228

<211> 744

<212> DNA

<213> Homo sapien

<400> 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaacga	gcctcctcct	tggaagatgg	aagaccgtgt	120
tcttgccga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgctcgggtc	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggcttg	ccggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacgggtg	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctgggtga	cagtgaaccg	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttggggtttg	600
ttcttttctg	taatgttcc	ctgtgttgc	agctgtcttc	atttctctggg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttcaactctg	aagtagctgg	tggt				744

<210> 229

<211> 300

<212> DNA

<213> Homo sapien

<400> 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaaggtggc	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacagct	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctatttttcc	acctgcagag	gatccagtct	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<210> 230

<211> 301

<212> DNA

<213> Homo sapien

<400> 230

cagcagaaca	aatacaaaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcttggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cggaaggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

<210> 231

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 231
 gcaagcacgc tggcaaatct ctgtcaggtc agctccagag aagccattag tcatttttagc 60
 caggaactcc aagtccacat ccttggcaac tggggacttg cgcaggttag ccttgaggat 120
 ggcaacacgg gacttctcat caggaagtgg gatgtagatg agctgatcaa gacggccagg 180
 tctgaggatg gcaggatcaa tgatgtcagg ccggttggtg ccgccaatga tgaacacatt 240
 tttttttgtg gacatgccat ccattttctgt caggatctgg ttgatgactc ggtcagcagc 300
 c 301

<210> 232
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 232
 agtaggtatt tcgtgagaag ttcaacacca aaactggaac atagtctctc ttcaagtgtt 60
 ggcgacagcg gggcttctctg attctggaat ataactttgt gttaaattaac agccacctat 120
 agaagagtcc atctgctgtg aaggagagac agagaactct gggttccgtc gtcctgtcca 180
 cgtgctgtac caagtgtctg tgccagcctg ttacctgttc tcaactgaaaa tctggctaata 240
 gctcttgtgt atcacttctg attctgacaa tcaatcaatc aatggcctag agcactgact 300
 g 301

<210> 233
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 233
 atgactgact tcccagtaag gctctctaag gggtaagtag gaggatccac aggatttgag 60
 atgctaaggc cccagagatc gtttgatcca accctcttat tttcagaggg gaaaatgggg 120
 cctagaagtt acagagcatc tagctggtgc gctggcacc cctggcctcac acagactccc 180
 gagttagctg gactacaggc acacagtcac tgaagcaggc cctgttagca attctatgag 240
 taaaaattaa catgagatga gtagagactt tattgagaaa gcaagagaaa atcctatcaa 300
 c 301

<210> 234
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 234
 aggtcctaca catcgagact catccatgat tgatatgaat ttaaaaaatta caagcaaaga 60
 cattttattc atcatgatgc tttcttttgt ttcttctttt cgttttcttc tttttctttt 120
 tcaatttcag caacatactt ctcaatttct tcaggattta aaatcttgag ggattgatct 180
 cgccatcatga cagcaagttc aatgtttttg ccacctgact gaaccacttc caggagtgcc 240
 ttgatcacca gcttaatggt cagatcatct gcttcaatgg cttcgtcagt atagtctctc 300
 t 301

<210> 235
 <211> 283
 <212> DNA

<213> Homo sapien

<400> 235

tggggctgtg	catcaggcgg	gtttgagaaa	tattcaattc	tcagcagaag	ccagaatttg	60
aattccctca	tcttttaggg	aatcatttac	caggtttgga	gaggattcag	acagctcagg	120
tgctttcact	aatgtctctg	aacttctgtc	cctctttgtt	catggatagt	ccaataaata	180
atgttatctt	tgaactgatg	ctcataggag	agaatataag	aactctgagt	gatatcaaca	240
ttagggattc	aaagaaatat	tagattttaag	ctcacactgg	tca		283

<210> 236

<211> 301

<212> DNA

<213> Homo sapien

<400> 236

aggtcctcca	ccaactgcct	gaagcacggg	taaaattggg	aagaagtata	gtgcagcata	60
aatactttta	aatcgatcag	atttccctaa	cccacatgca	atcttcttca	ccagaagagg	120
tcgagcagc	atcattaata	ccaagcagaa	tgcgtaatag	ataaatacaa	tggtatatag	180
tgggtagacg	gcttcacatg	tacagtgtac	tgtgggtatcg	taatctggac	ttgggttgta	240
aagcatcgtg	taccagtcag	aaagcatcaa	tactcgacat	gaacgaatat	aaagaacacc	300
a						301

<210> 237

<211> 301

<212> DNA

<213> Homo sapien

<400> 237

cagtggtagt	ggtgggtggac	gtggcggttg	tcgtgggtgcc	ttttttgggtg	cccgtcacaa	60
actcaatttt	tgttcgctcc	tttttggcct	tttccaattt	gtccatctca	attttctggg	120
ccttggctaa	tgctcatag	taggagtcct	cagaccagcc	atggggatca	aacatatcct	180
ttgggtagtt	ggtgccaaagc	tcgtcaatgg	cacagaatgg	atcagcttct	cgtaaattcta	240
gggttccgaa	attcttttctt	cctttggata	atgtagttca	tatccattcc	ctcctttatc	300
t						301

<210> 238

<211> 301

<212> DNA

<213> Homo sapien

<400> 238

gggcaggttt	tttttttttt	ttttttgatg	gtgcagaccc	ttgctttatt	tgtctgactt	60
gttcacagtt	cagccccctg	ctcagaaaac	caacgggcca	gctaaggaga	ggaggaggca	120
ccttgagact	tccggagtcg	aggctctcca	gggttcccca	gcccataaat	cattttctgc	180
acccctgcc	tgggaagcag	ctccctgggg	ggtgggaatg	ggtgactaga	agggatttca	240
gtgtgggacc	cagggtctgt	tcttcacagt	aggaggtgga	agggatgact	aattttctta	300
t						301

<210> 239

<211> 239

<212> DNA

<213> Homo sapien

<400> 239

ataagcagct	agggaattct	ttatttagta	atgtcctaac	ataaaagttc	acataactgc	60
ttctgtcaaa	ccatgatact	gagctttgtg	acaaccaga	aataactaag	agaaggcaaa	120
cataatacct	tagagatcaa	gaaacattta	cacagttcaa	ctgtttaaaa	atagctcaac	180
attcagccag	tgagtagagt	gtgaatgcca	gcatacacag	tatacaggtc	cttcaggga	239

<210> 240
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 240						
ggctctaattg	aagcagcagc	ttccacattt	taacgcaggt	ttacgggtgat	actgtccttt	60
gggatctgcc	ctccagtga	accttttaag	gaagaagtgg	gccaagcta	agttccacat	120
gctgggtgag	ccagatgact	tctgttccct	ggtcactttc	ttcaatgggg	cgaatggggg	180
ctgccaggtt	tttaaaatca	tgtttcatct	tgaagcacac	ggtcacttca	ccctcctcac	240
gctgtgggtg	tactttgatg	aaaataccca	ctttgttggc	ctttctgaag	ctataatgtc	300

<210> 241
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 241						
gaggtctggt	gctgaggtct	ctgggctagg	aagaggagtt	ctgtggagct	ggaagccaga	60
cctctttgga	ggaaactcca	gcagctatgt	tgtgtctct	gagggaatgc	aacaaggctg	120
ctcctccatg	tattggaaaa	ctgcaactg	gactcaactg	gaagggaagt	ctgctgccag	180
tgtgaagaac	cagcctgagg	tgacagaaac	ggaagcaaac	aggaacagcc	agtcttttct	240
tcctcctcct	gtcatacggg	ctctctcaag	catcctttgt	tgtcaggggc	ctaaaaggga	300
g						301

<210> 242
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 242						
ccgaggtcct	gggatgcaac	caatcactct	gtttcacgtg	acttttatca	ccatacaatt	60
tgtggcattt	cctcattttc	tacattgtag	aatcaagagt	gtaaataaat	gtatatcgat	120
gtcttcaaga	atatatcatt	cctttttcac	tagaaccat	tcaaaatata	agtcaagaat	180
cttaatatca	acaaatatat	caagcaaact	ggaaggcaga	ataactacca	taatttagta	240
taagtacca	aagttttata	aatcaaaaagc	cctaatagata	accattttta	gaattcaatc	300
a						301

<210> 243
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 243						
aggtaagtcc	cagtttgaag	ctcaaaaagat	ctggtatgag	cataggctca	tcgacgacat	60
ggtggcccaa	gctatgaaat	cagagggagg	cttcatctgg	gcctgtaaaa	actatgatgg	120
tgacgtgcag	tcggactctg	tggcccaagg	gtatggctct	ctcggcatga	tgaccagcgt	180
gctggtttgt	ccagatggca	agacagtaga	agcagaggct	gccacggga	ctgtaaccgg	240
tcactaccgc	atgttccaga	aaggacagga	gacgtccacc	aatccattg	cttccatttt	300

t

301

<210> 244
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 244
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120
 ccaggacac tggaaacagt tgacactgta aggtgcttgc tcccccaagac acatcctaaa 180
 aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc ccttcttatt tatgtgaaca 240
 actggtttgc ttttgtgtat cttttttaaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 245
 gtctgagtat ttaaaatggt attgaaatta tcccccaacca atgttagaaa agaaagaggt 60
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240
 agctaataaa atgaaagacc taatttctaa agcaattcct tataatttac aaagttttta 300
 g 301

<210> 246
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 246
 ggtctgtcct acaatgcttg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60
 acctgggctt atttttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120
 agtgccttct gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240
 caaatgtgtc ttacaaaaca cgttcctaac aaggatgtct ttacactacc aatgcagaaa 300
 c 301

<210> 247
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 247
 aggtcctttg gcagggtcga tggatcagag ctcaaactgg agggaaaggc atttcgggta 60
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttggtt cccccacgct 120
 gtgtcctgtg ttcagggtcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180
 ccttgatgat caaggttggg gcttaagtgg attaaggag gcaagttctg ggttccttgc 240
 cttttcaaac catgaagtca ggctctgtat ccctcctttt cctaactgat attctaacta 300
 a 301

<210> 248

<210>	252
<211>	301
<212>	DNA

<213> Homo sapien

<400> 252

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gcaaccaatc actctgtttc acgtgacttt tatcaccata caatttgtgg catttctca    60
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata    120
tcattccttt ttactagga acccattcaa aatataagtc aagaatctta atatcaacaa    180
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag tacccaaagt    240
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc    300
a                                                                    301
```

<210> 253

<211> 301

<212> DNA

<213> Homo sapien

<400> 253

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ttccctaaga agatgttatt ttgttgggtt ttgttccccc tccatctcga ttctcgtacc    60
caactaaaaa aaaaaaataa agaaaaaatg tgctgcgttc tgaaaaataa ctccttagct    120
tggtctgatt gttttcagac cttaaaatat aaacttgttt cacaagcttt aatccatgtg    180
gatttttttt cttagagaac cacaaaacat aaaaggagca agtcggactg aatacctggt    240
tccatagtgc ccacagggta ttcctcacat tttctccata ggaaaatgct ttttcccaag    300
g                                                                    301
```

<210> 254

<211> 301

<212> DNA

<213> Homo sapien

<400> 254

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cgctgcgcct ttcccttggg ggagggggcaa ggccagaggg ggtccaagtg cagcacgagg    60
aacttgacca attcccttga agcgggtggg ttaaaccctg taaatgggaa caaatcccc    120
ccaaatctct tcatcttacc ctggtggact cctgactgta gaattttttg gttgaaacaa    180
gaaaaaaata agcttttggg cttttcaagg ttgcttaaca ggtactgaaa gactggcctc    240
acttaaaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc    300
t                                                                    301
```

<210> 255

<211> 302

<212> DNA

<213> Homo sapien

<400> 255

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agcttttttt tttttttttt tttttttttt ttcattaaaa aatagtgtct tttattataa    60
attactgaaa tgtttctttt ctgaatataa atataaatat gtgcaaagtt tgacttggat    120
tggtgatttg ttgagtctt caagcatctc ctaataccct caagggcctg agtagggggg    180
aggaaaaagg actggagggt gaatctttat aaaaaacaag agtgattgag gcagattgta    240
aacattatta aaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac    300
aa                                                                    302
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<210> 256

<211> 301

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 256
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 aggaccctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc 120
 acccccacaaa gcctggacac cttgagcaca cagttatgac caggacagac tcatctctat 180
 aggcaaatag ctgctggcaa actggcatta cctgggttgt ggggatgggg gggcaagtgt 240
 gtggcctctc ggctgggta gcaagaacat tcagggtagg cctaagtta tcgtgttagt 300
 t 301

<210> 257
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 257
 gttgtggagg aactctggct tgctcattaa gtcctactga ttttctactat cccctgaatt 60
 tccccactta tttttgtctt tcaactatcg aggccttaga agaggtctac ctgcctccag 120
 tottacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat 180
 gtcacattac tcccttcagt gatttcttgt agaagtgcc atccctgaat gccaccaaga 240
 tottaattct cacatcttta atcttatctc tttgactcct ctttacaccg gagaaggctc 300
 c 301

<210> 258
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 258
 cagcagtagt agatgccgta tgccagcacg cccagcactc ccaggatcag caccagcacc 60
 aggggcccag ccaccaggcg cagaagcaag ataaacagta ggctcaagac cagagccacc 120
 cccagggcaa caagaatcca ataccaggac tgggcaaaat cttcaaagat cttaacactg 180
 atgtctcggg cattgaggct gtcaataana cgctgatccc ctgctgtatg gtgggtgtcat 240
 tgggtgatccc tgggagcgcc ggtggagtaa cgttgggtcca tggaaagcag cgcccacaac 300
 t 301

<210> 259
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 259

tcatatatgc	aaacaaatgc	agactangcc	tcaggcagag	actaaaggac	atctcttggg	60
gtgtcctgaa	gtgatttgga	cccctgaggg	cagacaccta	agtaggaatc	ccagtgggaa	120
gcaaagccat	aaggaagccc	aggattcctt	gtgatcagga	agtgggccag	gaaggctctgt	180
tccagctcac	atctcatctg	catgcagcac	ggaccggatg	cgcccaactgg	gtcttgggtt	240
ccctcccatc	ttctcaagca	gtgtccttgt	tgagccattt	gcattccttgg	ctccaggtgg	300
c						301

<210> 260

<211> 301

<212> DNA

<213> Homo sapien

<400> 260

tttttttttct	ccctaaggaa	aaagaaggaa	caagtctcat	aaaaccaa	aagcaatggt	60
aagggtgtctt	aacttgaaaa	agattaggag	tcaactggtt	acaagttata	attgaatgaa	120
agaactgtaa	cagccacagt	tggccatttc	atgccaatgg	cagcaaacia	caggattaac	180
tagggcaaaa	tataataagt	tgtggaagcc	ctgataagt	cttaataaac	agactgattc	240
actgagacat	cagtacctgc	ccgggcggcc	gtctgagccg	aattctgcag	atatccatca	300
c						301

<210> 261

<211> 301

<212> DNA

<213> Homo sapien

<400> 261

aaatatctga	gcaaactctg	taactaatgt	gtctccataa	aaggctttga	actcagtga	60
tctgtttcca	tccacgattc	tagcaatgac	ctctcggaca	tcaaagctcc	tcttaagggt	120
agcaccact	attccataca	attcatcagc	aggaaataaa	ggctcttcag	aagggttcaat	180
ggtgacatcc	aatttcttct	gataatttag	attcctcaca	accttccctag	ttaagtgaag	240
ggcatgatga	tcattccaaag	cccagtggtc	acttactcca	gactttctgc	aatgaagatc	300
a						301

<210> 262

<211> 301

<212> DNA

<213> Homo sapien

<400> 262

gaggagagcc	tggtacagca	tttgtaagca	cagaatactc	caggagtatt	tgtaattgtc	60
tgtgagcttc	ttgccgcaag	tctctcagaa	atttaaaaag	atgcaaatacc	ctgagtcacc	120
cctagacttc	ctaaaccaga	tcctctgggg	ctggaacctg	gcactctgca	tttgtaatga	180
gggctttctg	gtgcacacct	aattttgtgc	atctttgccc	taaatcctgg	attagtgcgc	240
catcattacc	cccacattat	aatgggatag	attcagagca	gatactctcc	agcaaagaat	300
c						301

<210> 263

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 263

tttagcttgt	ggtaaagac	tcacaaaact	gattttaaaa	tcaagttaat	gtgaattttg	60
aaaattacta	cttaaatccta	attcacaaata	acaatggcat	taaggtttga	cttgagttgg	120
ttcttagtat	tatttatggg	aaataggctc	ttaccacttg	caaataactg	gccacatcat	180
taatgactga	cttcccagta	aggctctcta	aggggtaagt	angaggatcc	acaggatttg	240
agatgctaag	gccccagaga	tcgtttgatc	caaccctctt	attttcagag	gggaaaatgg	300
g						301

<210> 264

<211> 301

<212> DNA

<213> Homo sapien

<400> 264

aaagacgtta	aaccactcta	ctaccacttg	tggaactctc	aaagggtaaa	tgacaaaasc	60
aatgaatgac	tctaaaaaca	atattttacat	ttaatggttt	gtagacaata	aaaaaacaag	120
gtggatagat	ctagaattgt	aacattttta	gaaaaccata	scatttgaca	gatgagaaaag	180
ctcaattata	gatgcaaaag	tataactaaa	ctactatagt	agtaaagaaa	tacatttcac	240
acccttcata	taaattcact	atcttggcct	gaggcactcc	ataaaatgta	tcacgtgcat	300
a						301

<210> 265

<211> 301

<212> DNA

<213> Homo sapien

<400> 265

tgcccaagtt	atgtgtaagt	gtatccgcac	ccagaggtaa	aactacactg	tcattctttgt	60
cttcttgtga	cgcagtattt	cttctctggg	gagaagccgg	gaagtcttct	cctggctcta	120
catattcttg	gaagtctcta	atcaactttt	gttccatttg	tttcatttct	tcaggaggga	180
ttttcagttt	gtcaacatgt	tctctaacaa	cacttgccca	tttctgtaaa	gaatccaaag	240
cagccaagg	ctttgacatg	tcaacaacca	gcataactag	agtatccttc	agagatacgg	300
c						301

<210> 266

<211> 301

<212> DNA

<213> Homo sapien

<400> 266

taccgtctgc	ccttctctcc	atccaggcca	tctgcgaatc	tacatgggtc	ctcctattcg	60
acaccagatc	actctttcct	ctaccacag	gcttgctatg	agcaagagac	acaacctcct	120
ctcttctgtg	ttccagcttc	ttttcctggt	cttcccaccc	cttaagttct	attcctgggg	180
atagagacac	caatacccat	aacctctctc	ctaagcctcc	ttataaccga	gggtgcacag	240
cacagactcc	tgacaactgg	taaggccaat	gaactgggag	ctcacagctg	gctgtgcctg	300
a						301

<210> 267

<211> 301

<212> DNA

<213> Homo sapien

<400> 267

aaagagcaca	ggccagctca	gcctgccctg	gccatctaga	ctcagcctgg	ctccatgggg	60
gttctcagtg	ctgagtccat	ccaggaaaag	ctcacctaga	ccttctgagg	ctgaatcttc	120
atcctcacag	gcagcttctg	agagcctgat	attcctagcc	ttgatgggtct	ggagtaaagc	180
ctcattctga	ttcctctcct	tcttttcttt	caagttggct	ttcctcacat	ccctctgttc	240
aattcgcttc	agcttgtctg	ctttagccct	catttccaga	agcttcttct	ctttggcatc	300
t						301

<210> 268

<211> 301

<212> DNA

<213> Homo sapien

<400> 268

aatgtctcac	tcaactactt	cccagcctac	cgtggcctaa	ttctgggagt	tttcttctta	60
gatcttggga	gagctgggtc	ttctaaggag	aaggaggaag	gacagatgta	actttggatc	120
tcgaagagga	agtctaattg	aagtaattag	tcaacgggtcc	ttgttttagac	tcttgggaata	180
tgctgggtgg	ctcagtgagc	ccttttggag	aaagcaagta	ttattcttaa	ggagtaacca	240
cttcccatgg	ttctactttc	taccatcatc	aattgtatat	tatgtattct	ttggagaact	300
a						301

<210> 269

<211> 301

<212> DNA

<213> Homo sapien

<400> 269

taacaatata	cactagctat	ctttttaact	gtccatcatt	agcaccaatg	aagattcaat	60
aaaattacct	ttattcacac	atctcaaaac	aattctgcaa	attcttagtg	aagtttaact	120
atagtcacag	accttaaata	ttcacattgt	tttctatgtc	tactgaaaat	aagttcacta	180
cttttctgga	tattctttac	aaaatcttat	taaaattcct	ggtattatca	cccccaatta	240
tacagtagca	caaccacctt	atgtagtttt	tacatgatag	ctctgtagaa	gtttcacatc	300
t						301

<210> 270

<211> 301

<212> DNA

<213> Homo sapien

<400> 270

cattgaagag	cttttgcgaa	acatcagaac	acaagtgcct	ataaaattaa	ttaagcctta	60
cacaagaata	catattcctt	ttatttctaa	ggagttaaac	atagatgtag	ctgatgtgga	120
gagcttgcct	gtgcagtgca	tattggataa	cactattcat	ggccgaattg	atcaagtcaa	180
ccaactcctt	gaactggatc	atcagaagaa	gggtggtgca	cgatatactg	cactagataa	240
tggaaccaacc	aactaaattc	tctcaccagg	ctgtatcagt	aaactggcct	aacagaaaac	300
a						301

<210> 271

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 271
 aaaaggttct cataagatta acaattttaa taaatatttg atagaacatt ctttctcatt 60
 tttatagctc atcttttaggg ttgatattca gttcatgctt cccttgctgt tcttgatcca 120
 gaattgcaat cacttcatca gcctgtattc gctccaattc tctataaagt gggccaagg 180
 tgaaccacag agccacagca cacctctttc ccttggtgac tgccttcacc ccatganggt 240
 tctctcctcc agatganaac tgatcatgcg cccacatttt gggttttata gaagcagtc 300
 c 301

<210> 272
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 272
 taaattgcta agccacagat aacaccaatc aaatggaaca aatcactgtc ttcaaagtgc 60
 ttatcagaaa accaaatgag cctggaatct tcataatacc taaacatgcc gtatttagga 120
 tccaataatt ccctcatgat gagcaagaaa aattctttgc gcacccctcc tgcattccaca 180
 gcatcttctc caacaaatat aaccttgagt ggcttcttgt aatctatgtt ctttgttttc 240
 ctaaggactt ccattgcatc tcctacaata ttttctctac gcaccactag aattaagcag 300
 g 301

<210> 273
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 273
 acatgtgtgt atgtgtatct ttgggaaan aanaagacat cttgtttayt atttttttgg 60
 agagangctg ggacatggat aatcacwtaa tttgctayta tyactttaat ctgactygaa 120
 gaaccgtcta aaaataaaat ttaccatgct dtatattcct tatagtatgc ttatttcacc 180
 ttytttctgt ccagagagag tatcagtgac ananatttma ggggtgaamac atgmattggg 240
 gggacttnty tttacngagm accctgcccg sgcgcctcgc makcngantt ccgcsananc 300
 t 301

<210> 274
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 274

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cttatatact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg      60
aacagtaaatt gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa      120
tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggt gaaaagtcca      180
tctaggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc      240
aattgtgctt cttttgataa gaagctttct tggtcatatc aggaaattcc aganaaaagtc      300
c                                                                           301

```

```

<210> 275
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 275
tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg      60
gggtgaaatt ggccaacttt ctattaactt atgttggcaa ttttgccacc aacagtaagc      120
tggtcccttct aataaaaagaa aattgaaagg tttctcacta aacggaatta agtagtggag      180
tcaagagact cccaggcctc agcgtacctg cccggggcgc cgctcgaagc cgaattctgc      240
agatatccat cacactggcg gncgctcgan catgcactta gaaggnccaa ttcgccctat      300
a                                                                           301

```

```

<210> 276
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 276
tgtacacata ctcaataaat aaatgactgc attgtggtat tattactata ctgattatat      60
ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat      120
taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc      180
caatacatTTT aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttTgtg      240
aaaactattc agtatgtttc ccttgcttca tgtctgagaa ggctctcctt caatggggat      300
g                                                                           301

```

```

<210> 277
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 277
tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag      60
atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg      120
gaatcatggc actcctgata ctttcccaaa tcaacactct caatgcccc aacctgctct      180
caccatagtg gggagactaa agtggccacg gatttgctt angtgtgcag tgcgttctga      240
gttncctgtc gattacatct gaccagtctc ctttttccga agtccntccg ttcaatcttg      300

```

c

301

<210> 278
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 278
 taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60
 aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120
 cagtctctac tggtattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180
 aatgaacatc tcatgtgtgc tcacaatggt ctggcactat tataagtgtc tcacaggttt 240
 tatgtgttct tcgtaacttt atggantagg tactoggcgc cgaacacgct aagccgaatt 300
 c 301

<210> 279
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 279
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60
 gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120
 ttagaccttt accttcacgc caccacacag tgcttgatat ttcagagtca gtcattgggt 180
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300
 a 301

<210> 280
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 280
 ggtactggag ttttctctcc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60
 tagaaaggtg gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct 120
 tgagaaaaaa acctaaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180
 gtttgatata gtttaggggt ggggttagat taagatctaa attacatcag gacaaagaga 240
 cagactatta actccacagt taattaagga ggtatgttcc atgtttattt gttaaagcag 300
 t 301

<210> 281
 <211> 301
 <212> DNA

<213> Homo sapien

<400> 281

aggtacaaga	aggggaatgg	gaaagagctg	ctgctgtggc	attgttcaac	tiggatattc	60
gccgagcaat	ccaaatcctg	aatgaagggg	catcttctga	aaaaggagat	ctgaatctca	120
atgtggtagc	aatggcttta	tcgggttata	cggatgagaa	gaactccctt	tggagagaaa	180
tgtgtagcac	actgcgatta	cagctaaata	acccgtatct	gtgtgtcatg	tttgcatttc	240
tgacaagtga	aacaggatct	tacgatggag	ttttgtatga	aaacaaagtt	gcagtacctc	300
g						301

<210> 282

<211> 301

<212> DNA

<213> Homo sapien

<400> 282

caggtactac	agaattaaaa	tactgacaag	caagtagttt	cttggcgtgc	acgaattgca	60
tccagaaccc	aaaaattaag	aaattcaaaa	agacattttg	tgggcacctg	ctagcacaga	120
agcgcagaag	caaagcccag	gcagaacccat	gctaacctta	cagctcagcc	tgcacagaag	180
cgcagaagca	aagcccaggc	agaaccatgc	taaccttaca	gctcagcctg	cacagaagcg	240
cagaagcaaa	gcccaggcag	aacatgctaa	ccttacagct	cagcctgcac	agaagcacag	300
a						301

<210> 283

<211> 301

<212> DNA

<213> Homo sapien

<400> 283

atctgtatac	ggcagacaaa	ctttatarag	tgtagagagg	tgagcgaaaag	gatgcaaaaag	60
cactttgagg	gctttataat	aatatgctgc	ttgaaaaaaa	aaatgtgtag	ttgatactca	120
gtgcatctcc	agacatagta	aggggttgct	ctgaccaatc	aggtgatcat	tttttctatc	180
acttcccagg	ttttatgcaa	aaattttggt	aaattctata	atggtgatat	gcattcttta	240
ggaaacatat	acatttttta	aaatctatct	tatgtaagaa	ctgacagacg	aatttgcttt	300
g						301

<210> 284

<211> 301

<212> DNA

<213> Homo sapien

<400> 284

caggtacaaa	acgtatttaa	gtggcttaga	atttgaacat	ttgtggtctt	tatttacttt	60
gcttcgtgtg	tgggcaaagc	aacatcttcc	ctaaatatat	attaccaaga	aaagcaagaa	120
gcagattagg	tttttgacaa	aacaaacagg	ccaaaagggg	gctgacctgg	agcagagcat	180
ggtgagaggc	aaggcatgag	agggcaagtt	tgttgtggac	agatctgtgc	ctactttatt	240
actggagtaa	aagaaaacaa	agttcattga	tgtcgaagga	tatatacagt	gttagaaatt	300
a						301

<210> 285

<211> 301

<212> DNA

<213> Homo sapien

<400> 285

<210> 286

$\langle 211 \rangle$ 301

<212> DNA

<213> Homo sapien

<400> 286

taccactgca	ttccagcctg	ggtgacagag	tgagactccg	tctccaaaaa	aaactttgct	60
tgtatattat	ttttgcctta	cagtg gatca	ttctagtagg	aaaggacagt	aagatttttt	120
atcaaaatgt	gtcatgccag	taagagatgt	tatatctctt	tctcatttct	tccccacca	180
aaaataaagc	accatatagc	ttataagtct	caaatttttg	ccttttacta	aaatgtgatt	240
gtttctgttc	attgtgtatg	cttcattacc	tatattaggc	aaattccatt	ttttcccttg	300
t						301

<210> 287

<211> 301

<212> DNA

<213> Homo sapien

<400> 287

tacagatctg	ggaactaaat	attaaaaatg	agtgtggctg	gatatatgga	gaatgttggg	60
cccagaagga	acgtagagat	cagatattac	aacagctttg	ttttgagggg	tagaaatatg	120
aaatgatttg	gttatgaacg	cacagtttag	gcagcagggc	cagaatcctg	accctctgcc	180
cCGTggttat	ctcctcccca	gcttggtgc	ctcatgttat	cacagtattc	cattttgttt	240
gTtgcatgtc	ttgtgaagcc	atcaagattt	tctcgtctgt	tttctctca	ttggtaatgc	300
t						301

<210> 288

<211> 301

<212> DNA

<213> Homo sapien

<400> 288

gtacaccta	ctgcaaggac	agctgaggaa	tgtaatgggc	agccgctttt	aaagaagtag	60
agtcaatag	aagacaaatt	ccagttccag	ctcagtcctg	gtatctgcaa	agctgcaaaa	120
gatcttttaa	gacaatttca	agagaatatt	tccttaaagt	tggcaatttg	gagatcatac	180
aaaagcattc	gcttttgtga	tttaatttag	ctcatctggc	cactggaaga	atccaaacag	240
tctgccttaa	ttttggatga	atgcatgatg	gaaattcaat	aatttagaaa	gttaaaaaaa	300
a						301

<210> 289

<211> 301

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 289
ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtcc tggaaactta 60
gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatcttg 120
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180
cgttctataa atgaatgtgc tgaagcaaag tgcccaggt ggcggcgaan aagagaaaga 240
tgtgttttgt tttggactct ctgtggtccc ttccaatgct gtgggtttcc aaccagnnga 300
a 301

<210> 290
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 290
aactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60
tgactgatct gttcatttct ctcacagctc ttaccccaa aagcttttcc accctaagt 120
ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180
gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240
tgccctgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagtgag 300
a 301

<210> 291
<211> 301
<212> DNA
<213> Homo sapien

<400> 291
caggtacca tttcttctat cctagaaaca tttcatttta tggtgttgaa acataacaac 60
tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120
tttactcttt tggttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat 180
agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa 240
acatgagctt cacttcccca ctaactaatt agcatctggt atttcttaac cgtaatgcct 300
a 301

<210> 292
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

<223> n = A, T, C or G

acctttttagt	agtaatgtct	aataataaat	aagaaatcaa	ttttataagg	tocatatagc	60
tgtatttaagt	aatttttaag	tttaaaagat	aaaataccat	catttttaaat	gttggtattc	120
aaaaccaaaag	natataaccg	aaaggaaaaa	cagatgagac	ataaaaatgat	ttgcnagatg	180
ggaaatatag	tasttyatga	atgttnatta	aattccagtt	ataatagtgg	ctacacactc	240
tcactacaca	cacagacccc	acagtcctat	atgccacaaa	cacatttcca	taacttgaaa	300
a						301

<213> Homo sapien

ggtaccaagt	gctgggtgcca	gcctgttacc	tgttctcact	gaaaagtctg	gctaattgctc	60
ttgtgtagtc	actttgtgatt	ctgacaatca	atcaatcaat	ggcctagagc	actgactgtt	120
aacacaaaacg	tcaactagcaa	agtagcaaca	gctttaagtc	taaatacaaa	gctgtttctgt	180
gtgagaathtt	tttaaaaggc	tacttgtata	ataacccttg	tcatttttaa	tgtacctcgg	240
ccgcgaccac	gctaagccga	attctgcaga	tatccatcac	actggcggcc	gctcgagcat	300
g						301

<213> Homo sapien

$\langle 223 \rangle$ n = A, T, C or G

tgacccataa	caatatacac	tagctatctt	tttaactgtc	catcattagc	accaatgaag	60
attcaataaa	attaccttta	ttcacacatc	tcaaaacaat	tctgcaaatt	cttagtgaag	120
tttaactata	gtcacaganc	ttaaatattc	acattgtttt	ctatgtctac	tgaaaataag	180
ttcactactt	ttctgggata	ttctttacaa	aatcttatta	aaattcctgg	tattatcacc	240
cccaattata	cagtagcaca	accaccttat	gtagttttta	catgatagct	ctgtagaggt	300
t						301

<213> Homo sapien

gtactctttc	tctccctcc	tctgaattta	attctttcaa	cttgcaattt	gcaaggatta	60
cacatttcac	tgtgatgat	attgtgttgc	aaaaaaaaa	gtgtctttgt	ttaaattac	120
ttggtttgtg	aatccattct	gctttttccc	cattggaact	agtcattaac	ccatctctga	180
actggtagaa	aaacrtctga	agagctagtc	tatcagcatc	tgacagggtga	attggatggg	240
tctcagaacc	atttcaccca	gacagcctgt	ttctatcctg	tttaataaat	tagtttgggt	300
tctct						305

<210> 296
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 296
 aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60
 cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120
 attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180
 tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240
 tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300
 c 301

<210> 297
 <211> 300
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 297
 actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60
 aaggttttga aaaccttgaa ggagaatcat ttgacaaga agtacttaag agtctagaga 120
 acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180
 tccatcattg ggagtgcact ggccatccct caaaaatttgt ctgggctggc ctgagtggtc 240
 accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc acactggcgg 300

<210> 298
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 298
 tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc ccctcccgcg 60
 ggcatctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgcccggctg 120
 tgaagctctc agatcaatca cgggaagggc ctggcggttg tggccacctg gaaccaccc 180
 gtccctgtctg ttacatttc actaycaggt tttctctggg cattacnatt tgttccccta 240
 caacagtgac ctgtgcattc tgotgtggcc tgctgtgtct gcaggtggct ctcagcgagg 300
 t 301

<210> 299
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 299
 gttttgagac ggagttttcac ttttgttgcc cagactggac tgcaatggca ggggtctctgc 60
 tcactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc 120
 tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg 180
 gagtttcgcc atgttggtcca gctgggtctca aactcctgac ctcaagcgac ctgcctgcct 240
 cggcctccca aagtgtctga attataggca tgagtcaaca cgcccagcct aaagatattt 300
 t 301

<210> 300
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 300
 attcagtttt atttgctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga 60
 tatgtcccac acccactggg aaaggctccc acctggctac ttcctctatc agctgggtca 120
 gctgcattcc acaaggttct cagcctaatt agtttcaact cctgccagtc tcaaaactta 180
 gtaaagcaag accatgacat tccccacgg aaatcagagt ttgccccacc gtcttggttac 240
 tataaagcct gcctctaaca gtcttgcctt cttcacacca atcccgagcg catcccccat 300
 g 301

<210> 301
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 301
 ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc 60
 agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt 120
 gggaactcac aaagaccctc agagctgaga caccacaaac agtgggagct cacaaagacc 180
 ctgagagctg agacaccac aacagtggga gctcacaaag accctcagag ctgagacacc 240
 cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt 300
 t 301

<210> 302
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 302
 aggtacacat ttagcttggt gtaaattgact cacaaaaactg atttttaaatt caagttaatg 60
 tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac 120
 ttgagttggt tottagtatt atttatggta aataggctct taccacttgc aaataactgg 180
 ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca 240
 caggatttga gatgctaagg ccccagagat cgtttgatcc aaccctctta ttttcagagg 300
 g 301

<210> 303
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 303
 aggtaccaac tgtggaaata ggtagaggat cattttttct ttccatatca actaagttgt 60

```

atattgtttt ttgacagttt aacacatctt cttctgtcag agattctttc acaatagcac      120
tggctaattg aactaccgct tgcattgttaa aaatgggtgg ttgtgaaatg atcataggcc      180
agtaacgggt atgtttttct aactgatctt ttgctcgttc caaagggacc tcaagacttc      240
catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac      300
c                                                                           301

```

```

<210> 304
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 304
acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt      60
tattagtttc agtttcagct taccactttt ttgtctgcaa catgcaraas agacagtgcc      120
cttttttagtg tatcatatca ggaatcatct cacattgggt ttgtgccatta ctgggtgcagt      180
gacttttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga      240
ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatatatct      300
c                                                                           301

```

```

<210> 305
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 305
gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag      60
cagggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggag      120
taaaggagga gaaacagata caaatctccc aactcagtat taaggatttc tcatgcctag      180
aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa      240
ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag      300
a                                                                           301

```

```

<210> 306
<211> 8
<212> PRT
<213> Homo sapien

```

```

<400> 306
Val Leu Gly Trp Val Ala Glu Leu
1                               5

```

```

<210> 307
<211> 637
<212> DNA
<213> Homo sapien

```

```

<400> 307
acagggratg aagggaagg gagaggatga ggaagccccc ctggggattt ggtttgggtcc      60
ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa ataggggcac      120

```

attgaggaat	gataacttgag	cccaaagagc	attcaatcat	tgttttat	gcottmtttt	180
cacaccattg	gtgagggagg	gattaccacc	ctgggggttat	gaagatgggt	gaacacccca	240
cacatagcac	cggagatatg	agatcaacag	tttcttagcc	atagagattc	acagcccaga	300
gcaggaggac	gcttgcacac	catgcaggat	gacatggggg	atgctgctcg	gattgggtgtg	360
aagaagcaag	gactgttaga	ggcaggcttt	atagtaacaa	gacggtgggg	caaactctga	420
tttccgtggg	ggaatgtcat	ggtcttgctt	tactaagttt	tgagactggc	aggtagtgaa	480
actcattagg	ctgagaacct	tgtggaatgc	acttgaccca	sctgatagag	gaagtagcca	540
ggtgggagcc	tttcccagtg	ggtgtgggac	atatctggca	agattttgtg	gcactcctgg	600
ttacagatac	tggggcagca	aataaaaactg	aatcttg			637

<210> 308

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 308

acgattttca	ttatcatgta	aatcgggtca	ctcaaggggc	caaccacagc	tgggagccac	60
tgctcagggg	aaggttcata	tgggaactttc	tactgcccaa	ggttctatac	aggatataaa	120
ggngcctcac	agtatagatc	tggtagcaaa	gaagaagaaa	caaacactga	tctctttctg	180
ccacccctct	gaccctttgg	aactcctctg	acccttttaga	acaagcctac	ctaatatctg	240
ctagagaaaa	gaccaacaac	ggcctcaaag	gatctcttac	catgaaggtc	tcagctaatt	300
cttggtctaag	atgtgggttc	cacattaggt	tctgaatatg	gggggaaggg	tcaatttgc	360
catttttgtgt	gtggataaaag	tcaggatgcc	cagggggccag	agcagggggc	tgcttgcttt	420
gggaacaatg	gctgagcata	taaccatagg	ttatggggaa	caaaacaaca	tcaaagtcac	480
tgtatcaatt	gccatgaaga	cttgaggggac	ctgaatctac	cgattcatct	taaggcagca	540
ggaccagttt	gagtggaac	aatgcagcag	cagaatcaat	ggaaacaaca	gaatgattgc	600
aatgtccttt	tttttctcct	gcttctgact	tgataaaagg	ggaccgt		647

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

actttatagt	ttaggctgga	cattggaaaa	aaaaaaaaagc	cagaacaaca	tgtgatagat	60
aatatgattg	gctgcacact	tccagactga	tgaatgatga	acgtgatgga	ctattgtatg	120
gagcacatct	tcagcaagag	ggggaaatac	tcatcatttt	tggccagcag	ttgtttgatc	180
accaaacatc	atgccagaat	actcagcaaa	ccttcttagc	tcttgagaag	tcaaagtcag	240
ggggaattta	ttcctggcaa	ttttaattgg	actccttatg	tgagagcagc	ggctaccag	300
ctggggtggt	ggagcgaacc	cgctactagt	ggacatgcag	tggcagagct	cctggtaacc	360
acctagagga	atacacaggc	acatgtgtga	tgccaagcgt	gacacctgta	gcactcaaat	420
ttgtcttggt	tttgtctttc	ggtgtgtaag	attcttaagt			460

<210> 310

<211> 539

<212> DNA

<213> Homo sapien

<400> 310

```

acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg      60
ctaaagggtt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt      120
taggaaagag aaacacagaa ggaagagaca caataaaagt cattatgtat tctgtgagaa      180
gtcagacagt aagatttgtg ggaaatgggt tggtttggtg tatggtatgt attttagcaa      240
taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgatc acttgctgaa      300
ttcctcaagg taggcatgat gaaggagggt ttagaggaga cacagacaca atgaactgac      360
ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc aactgtgac      420
atgattatgt cattacatgt atggtagtga tggggatgat aggaaggaag aacttatggc      480
atattttcac cccacaaaaa gtcagttaaa tattgggaca ctaaccatcc aggtcaaga      539

```

```

<210> 311
<211> 526
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(526)
<223> n = A,T,C or G

```

```

<400> 311
caaatttgag ccaatgacat agaattttac aaatcaagaa gcttattctg gggccatttc      60
ttttgacggt ttctctaaac tactaaagag gcattaatga tccataaatt atattatcta      120
catttacagc atttaaaatg tgttcagcat gaaatattag ctacagggga agctaaataa      180
attaaacatg gaataaagat ttgtccttaa atataatcta caagaagact ttgatatttg      240
tttttcacaa gtgaagcatt cttataaagt gtcataacct ttttggggaa actatgggaa      300
aaaatgggga aactctgaag ggttttaagt atcttacctg aagctacaga ctccataacc      360
tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc      420
acagcaagag cttctcatct aaaccctttc cttttttagt atctgtgtat caagtataaa      480
agttctataa actgtagtnt acttatttta atccccaaag cacagt                    526

```

```

<210> 312
<211> 500
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

```

```

<400> 312
cctctctctc cccaccccct gactctagag aactgggttt tctcccagta ctccagcaat      60
tcattttctga aagcagttga gccactttat tccaaagtac actgcagatg ttcaaactct      120
ccattttctc ttcccttcca cctgccagtt ttgctgactc tcaacttgtc atgagtgtaa      180
gcattaagga cattatgctt cttcgattct gaagacaggc cctgctcatg gatgactctg      240
gcttcttagg aaaatathtt tcttccaaaa tcagtaggaa atctaaactt atccccctct      300
tgcatagtgc tagcagcttc agacatttgg ttaagaacct atgggaaaaa aaaaaatcct      360
tgctaagtgt gtttcocttg taaaccanga ttcttatttg nctggtatag aatatcagct      420
ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt      480
tagtcttaat tatctattgg                    500

```

```

<210> 313
<211> 718

```

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 313
 ggagatttgt gtggtttgca gccgagggag accaggaaga tctgcatggt gggaaggacc 60
 tgatgataca gaggtgagaa ataagaaagg ctgctgactt taccatctga ggccacacat 120
 ctgctgaaat ggagataatt aacatcacta gaaacagcaa gatgacaata taatgtctaa 180
 gtagtgacat gtttttgacac atttccagcc ctttttaaata tccacacaca caggaagcac 240
 aaaaggaagc acagagatcc ctgggagaaa tgcccggccg ccattcttggg tcatcgatga 300
 gacctgccct gtgacctgntc ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg 360
 ttccttaaag gatggcagga aaacagatcc tgttgtggat atttatttga acgggattac 420
 agatttgaaa tgaagtcaca aagtgcagcat taccaatgag aggaaaacag acgagaaaat 480
 cttgatgggt cacaagacat gcaacaaaca aaatggaata ctgtgatgac acgagcagcc 540
 aactggggag gagataccac ggggcagagg tcaggattct ggccctgctg cctaactgtg 600
 cgttatacca atcatttcta tttctaccct caaacaagct gtngaataac tgacttacgg 660
 ttcttntggc ccacattttc atnatccacc ccentntttt aannttantic caaantgt 718

<210> 314
<211> 358
<212> DNA
<213> Homo sapien

<400> 314
 gtttattttac attacagaaa aaacatcaag acaatgtata ctattttcaaa tatatccata 60
 cataatcaaa tatagctgta gtacatgttt tcatttgggt agattaccac aaatgcaagg 120
 caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg tgtagtccaa 180
 gctctcggta gtccagccac tgtgaaacat gctcccttta gattaacctc gtggacgctc 240
 ttgttgtatt gctgaactgt agtgccctgt attttgcctc tgtctgtgaa ttctgttgct 300
 tctggggcat ttccttgtga tgcagaggac caccacacag atgacagcaa tctgaatt 358

<210> 315
<211> 341
<212> DNA
<213> Homo sapien

<400> 315
 taccacctcc ccgctggcac tgatgagccg catcaccatg gtcaccagca ccatgaaggc 60
 ataggtgatg atgaggacat ggaatgggcc cccaaggatg gtctgtccaa agaagcgagt 120
 gacccccatt ctgaagatgt ctggaacctc taccagcagg atgatgatag ccccaatgac 180
 agtcaccagc tccccgacca gccggatata gtccttaggg gtcattgtagg ctctctgaag 240
 tagcttctgc tgtaagaggg tgttgtcccg ggggctcgtg cggttattgg tcttgggctt 300
 gagggggcgg tagatgcagc acatggtgaa gcagatgatg t 341

<210> 316
<211> 151
<212> DNA
<213> Homo sapien

<400> 316

agactgggca agactcttac gccccacact gcaatttggc cttgttgccg tatccattta 60
 tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact 120
 cattcaggga gctctgggtg caatattagt t 151

<210> 317
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 317
 agaactagt gacctaataa aaatacctga aacatatatt ggcatttatc aatggctcaa 60
 atcttcattt atctctggcc ttaaccctgg ctcttgaggg tgcggccagc agatcccagg 120
 ccagggtctt gttcttgcca cacctgcttg a 151

<210> 318
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 318
 actggtggga ggcgctgttt agttggctgt tttcagaggg gtctttcgga gggacctcct 60
 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120
 tgggggctgt ttatcaggca gtgataaaca t 151

<210> 319
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 319
 aactagtga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta 60
 catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg 120
 taagattggg tttatgtgat tttatgggt a 151

<210> 320
 <211> 150
 <212> DNA
 <213> Homo sapien

<400> 320
 aactagtga tccactagtc cagtgtggtg gaattccatt gtgttggggt tctagatcgc 60
 gagcggtgc cctttttttt tttttttttg ggggggaatt tttttttttt aatagttatt 120
 gagtgttcta cagcttacag taaataccat 150

<210> 321
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 321
 agcaactttg tttttcatcc aggttatatt aggcttagga tttcctctca cactgcagtt 60
 tagggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg 120
 tgcctctgag aaatcaaagt cttcatacac t 151

<210> 322
 <211> 151
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(151)
 <223> n = A,T,C or G

<400> 322
 atccagcatc ttctcctgtt tottgccttc ctttttcttc ttcttasatt ctgcttgagg 60
 tttgggcttg gtcagtttgc cacagggctt ggagatgggtg acagtcttct ggcattcggc 120
 attgtgcagg gctcgcttca nacttccagt t 151

<210> 323
 <211> 151
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(151)
 <223> n = A,T,C or G

<400> 323
 tgaggacttg tktttctttt ctttattttt aatcctotta ckttgtaaatt atattgccta 60
 nagactcant tactaccag tttgtggttt twtgggagaa atgtaactgg acagtttagct 120
 gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324
 <211> 461
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(461)
 <223> n = A,T,C or G

<400> 324
 acctgtgtgg aatttcagct ttctcatgc aaaaggattt tgtatccccg gctacttga 60
 agaagtggtc agctaaagga atccaggttg ttggttgac tgtaataacc tttgatgaaa 120
 agagttacta ogaatcccat cttggttcca gctatatcac tgacagcatg gtagaagact 180
 gcgaacctca cttctagact ttcacgggtg gacgaaacgg gttcagaaac tgccaggggc 240
 ctcatacagg gatatacaaaa taccctttgt gctaccagg ccctggggaa tcaggtgact 300
 cacacaaatg caatagtttg tcaactgcatt tttacctgaa ccaaagctaa acccggtgtt 360
 gccacatgc accatggcat gccagagttc aacactgttg ctcttgaaaa ttgggtctga 420
 aaaaacgcac aagagcccct gccctgccct agctgangca c 461

<210> 325
 <211> 400
 <212> DNA
 <213> Homo sapien

<400> 325

acactgtttc	catgttatgt	ttctacacat	tgctacctca	gtgctcctgg	aaacttagct	60
tttgatgtct	ccaagtagtc	caccttcatt	taactctttg	aaactgtatc	atctttgcca	120
agtaagagtg	gtggcctatt	tcagctgctt	tgacaaaatg	actggctcct	gacttaacgt	180
tctataaatg	aatgtgctga	agcaaagtgc	ccatgggtggc	ggcgaagaag	agaaagatgt	240
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<210> 326

<211> 1215

<212> DNA

<213> Homo sapien

<400> 326

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<210> 327

<211> 220

<212> PRT

<213> Homo sapien

<400> 327

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			20					25					30		
Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly
			35				40					45			
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			50				55				60				
Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala
65					70					75					80

Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp
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 Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn
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 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro
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 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys
 130 135 140
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly
 145 150 155 160
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro
 165 170 175
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala
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 195 200 205
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 <212> DNA
 <213> Homo sapien

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 <211> 77
 <212> PRT
 <213> Homo sapien

<400> 329
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 35 40 45
 His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu
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<210> 330
 <211> 70
 <212> DNA
 <213> Homo sapien

<400> 330
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gctgcagcca

70

<210> 331
 <211> 22
 <212> PRT
 <213> Homo sapien

<400> 331
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 Val Ser Gly Ser Cys Ser
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<210> 332
 <211> 2507
 <212> DNA
 <213> Homo sapien

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<210> 333

<211> 3030

<212> DNA

<213> Homo sapien

<400> 333

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<210> 334

<211> 2417

<212> DNA

<213> Homo sapien

<400> 334

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 <212> DNA
 <213> Homo sapien

<400> 335						
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<210> 336
<211> 147
<212> PRT
<213> Homo sapien

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<400> 336
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Leu Asp Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr
20          25          30
Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln
35          40          45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
50          55          60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
65          70          75          80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
85          90          95
Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala
100          105          110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
115          120          125
Ser Tyr Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro
130          135          140
Ala Phe Trp
145

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<210> 337
<211> 9
<212> PRT
<213> Homo sapien

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<400> 337
Ala Leu Thr Gly Phe Thr Phe Ser Ala
1          5

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<210> 338
<211> 9
<212> PRT
<213> Homo sapien

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<400> 338
Leu Leu Ala Asn Asp Leu Met Leu Ile
1          5

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<210> 339
 <211> 318
 <212> PRT
 <213> Homo sapien

<400> 339
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 Leu Tyr Met Ala Ala Pro Gln Ile Arg Lys Met Leu Ser Ser Gly Val
 20 25 30
 Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Val Thr Gly
 35 40 45
 Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg
 50 55 60
 Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu
 65 70 75 80
 Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val
 85 90 95
 Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys
 100 105 110
 Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala
 115 120 125
 Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met
 130 135 140
 His Ile Gly Val Asn His Leu Gly His Phe Leu Leu Thr His Leu Leu
 145 150 155 160
 Leu Glu Lys Leu Lys Glu Ser Ala Pro Ser Arg Ile Val Asn Val Ser
 165 170 175
 Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly
 180 185 190
 Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala
 195 200 205
 Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly
 210 215 220
 Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val
 225 230 235 240
 Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe
 245 250 255
 Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu
 260 265 270
 Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His
 275 280 285
 Val Ala Trp Val Ser Ala Gln Ala Arg Asn Glu Thr Ile Ala Arg Arg
 290 295 300
 Leu Trp Asp Val Ser Cys Asp Leu Leu Gly Leu Pro Ile Asp
 305 310 315

<210> 340
 <211> 483
 <212> DNA
 <213> Homo sapien

<400> 340

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ctcctgctgc	aggctggagt	gtctttattc	ctggcgggag	accgcacatt	ccactgctga	180
ggttggtggg	gcggtttatc	aggcagtgat	aaacataaga	tgtcatttcc	ttgactccgg	240
ccttcaattt	tctctttggc	tgacgacgga	gtccgtgggtg	tcccgatgta	actgacccct	300
gctccaaacg	tgacatcact	gatgctcttc	tcggggggtgc	tgatggcccg	cttggtcacg	360
tgctcaatct	cgccattcga	ctcttgctcc	aaactgtatg	aagacacctg	actgcacgtt	420
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ctg						483

<210> 341

<211> 344

<212> DNA

<213> Homo sapien

<400> 341

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gctgccttac	aagtattaaa	tattttactt	ctttccataa	agagtagctc	aaaatatgca	180
attaatttaa	taattttctga	tgatggtttt	atctgcagta	atatgtatat	catctattag	240
aattttactta	atgaaaaact	gaagagaaca	aaattttgtaa	ccactagcac	ttaaagtactc	300
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<210> 342

<211> 592

<212> DNA

<213> Homo sapien

<400> 342

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cctggcaggt	aaaccaatgc	caagagagtg	atggaaacca	ttggcaagac	tttgttgatg	180
accaggattg	gaattttata	aaaatattgt	tgatgggaag	ttgctaaagg	gtgaattact	240
tccctcagaa	gagtgtaaaag	aaaagtcaga	gatgctataa	tagcagctat	tttaattggc	300
aagtgccact	gtggaaagag	ttcctgtgtg	tgtatgaagtt	ctgaagggca	gtcaaattca	360
tcagcatggg	ctgttttggtg	caaatgcaaa	agcacaggtc	tttttagcat	gctggtctct	420
cccggtgtcct	tatgcaaata	atcgtcttct	tctaaatttc	tcttaggctt	cattttccaa	480
agttcttctt	ggtttgtgat	gtcttttctg	ctttccatta	attctataaa	atagtatggc	540
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<210> 343

<211> 382

<212> DNA

<213> Homo sapien

<400> 343

ttcttgacct	cctcctcctt	caagctcaaa	caccacctcc	cttattcagg	accggcactt	60
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cttgtaactc	tcctttctcc	tttcttcccc	tttctctgcc	cgcttttccc	atcctgctgt	180
agacttcttg	attgtcagtc	tgtgtcacat	ccagtgattg	ttttggtttc	tgttcccttt	240
ctgactgcc	aaggggctca	gaaccccagc	aatcccttcc	tttactacc	ttcttttttg	300
ggggtagttg	gaagggactg	aaattgtggg	gggaaggtag	gaggcacatc	aataaagagg	360
aaaccaccaa	gctgaaaaaa	aa				382

<210> 344
 <211> 536
 <212> DNA
 <213> Homo sapien

<400> 344
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 caataggcca cataaacttg gctggatgga acctcacaat aaggtgggtca cctcttggtt 120
 gtttagggg atgccaagga taaggccagc tcagttatat gaagagaagc agaacaaaca 180
 agtctttcag agaaatggat gcaatcagag tgggatcccg gtcacatcaa ggtcacactc 240
 caccttcacg tgcctgaatg gttgccaggt cagaaaaatc cacccttac gagtgcggt 300
 tgcacctat atccccgcc cgcgccctt tctccataaa attcttctta gtagctatta 360
 ccttcttatt atttgatcta gaaattgccc tccttttacc cctaccatga gccctacaaa 420
 caactaacct gccactaata gttatgtcat ccctcttatt aatcatcatc ctagccctaa 480
 gtctggccta tgagtgacta caaaaaggat tagactgagc cgaataacaa aaaaaa 536

<210> 345
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 345
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 gcgtgggcca ggaaatcaca tcctacactg cccaggagcc agacacattt atggaacaga 180
 aaataacata tcggatttgg agagacactg ccaactggct ggagattaat ccggacactg 240
 gtgccatttc c 251

<210> 346
 <211> 282
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(282)
 <223> n = A,T,C or G

<400> 346
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 ctaagtcttg ttacaaaaaa aaggaaaaag aaaagatctt ctacgttaca aattctggga 120
 aggagacta tacctggctc ttgccctaag tgagaggtct tccctcccg accaaaaaat 180
 agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240
 ggtctcattt cccaaggtgc cttcaatgct catnaaaacc aa 282

<210> 347
 <211> 201
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(201)
 <223> n = A,T,C or G

<400> 347

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tctgagactg	actggaccca	cccagaccca	gggcaaagat	acatgttacc	atatcatctt	180
tataaagaat	ttttttttgt	c				201

<210> 348

<211> 251

<212> DNA

<213> Homo sapien

<400> 348

ctgttaatca	caacatttgt	gcataccttg	tgccaagtga	gaaaatgttc	taaaatcaca	60
agagagaaca	gtgccagaat	gaaactgacc	ctaagtccca	ggtgcccctg	ggcaggcaga	120
aggagacact	cccagcatgg	aggagggttt	atcttttcat	cctaggtcag	gtctacaatg	180
ggggaagggt	ttattataga	actcccaaca	gccacactca	ctcctgccac	ccacccgatg	240
gccctgcctc	c					251

<210> 349

<211> 251

<212> DNA

<213> Homo sapien

<400> 349

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aacccctgag	gatgccagag	ctatgggtcc	agaacatggg	gtggtattat	caacagagtt	120
cagaaggggtc	tgaactctac	gtgttaccag	agaacataat	gcaattcatg	cattccactt	180
agcaattttg	taaaatacca	gaaacagacc	ccaagagtct	ttcaagatga	ggaaaattca	240
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<210> 350

<211> 908

<212> DNA

<213> Homo sapien

<400> 350

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cggctggaat	tgctctgggt	atgatgacag	agaaaatgat	ctcttcctct	gtgacaccaa	180
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tatcaatatg	caggagccat	cttgacaggtg	tgatgctggg	tatactggac	aacactgtga	840
aaaaaaggac	tacagtgttc	tatacgttgt	tcccggtcct	gtacgatttc	agtatgtcct	900
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<400> 351

<210> 352

<211> 251

<212> DNA

<213> Homo sapien

<400> 352

<210> 353

<211> 436

<212> DNA

<213> Homo sapien

<400> 353

<210> 354

<211> 854

<212> DNA

<213> Homo sapien

<400> 354

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ttaattgcac	acctacaggc	actgggctca	tgctttcaag	tattttgtcc	tcacttttagg	360

gtgagtga	gatccccatt	ataggagcac	ttgggagaga	tcatataaaa	gctgactctt	420
gagtacatgc	agtaatgggg	tagatgtgtg	tgggtgtgtct	tcaattcctgc	aaggggtgctt	480
gttagggagt	gtttccagga	ggaacaagtc	tgaaccaat	catgaaataa	atggtaggtg	540
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caatatggaa	ggctctaatt	tgcccatatt	tgaataata	attcagcttt	ttgtaataca	660
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cattgtaccc	attttccctt	ccaaaatgtg	agcggcgggc	ctgctgcttt	caaggctgtc	840
acacgggatg	tcag					854

<210> 355

<211> 676

<212> DNA

<213> Homo sapien

<400> 355

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caggtcaaa	ctgatctttc	tggaaatgtc	ccaaccaagg	gcctatat	atcaaaagcc	120
atccacaagt	catacctgga	tgtcagcgaa	gagggcacgg	aggcagcagc	agccactggg	180
gacagcatcg	ctgtaaaaag	cctaccaatg	agagctcagt	tcaaggcgaa	ccacccttc	240
ctgttcttta	taaggcacac	tcataccaac	acgatcctat	tctgtggcaa	gcttgcctct	300
ccctaatacag	atgggggttga	gtaagggtca	gagttgcaga	tgaggtgcag	agacaatcct	360
gtgactttcc	cacggccaaa	aagctgttca	caacctcagc	acctctgtgc	ctcagtttgc	420
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attagatttt	cttgacttgt	atgtatctgt	gagatcttga	ataagtgacc	tgacatctct	660
gcttaaagaa	aaccag					676

<210> 356

<211> 574

<212> DNA

<213> Homo sapien

<400> 356

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caagcttccc	atttgtagat	ctcagtgcct	atgagtatct	gacacctgtt	cctctcttca	180
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gagttctttt	cttgggcaac	agataaccag	acaggactct	aatcgtgctc	ttattcaaca	360
ttcttctgtc	tctgcctaga	ctggaataaa	aagccaatct	ctctcgtggc	acagggaagg	420
agatacaagc	togttttacat	gtgatagatc	taacaaaggc	atctaccgaa	gtctgggtctg	480
gatagacggc	acagggagct	cttaggtcag	cgctgctggt	tggaggacat	tcctgagtcc	540
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<210> 357

<211> 393

<212> DNA

<213> Homo sapien

<400> 357

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taatatgkkg	kottgttcac	tataacttaaa	aatgcaccac	tcataaatat	ttaattcagc	120

aagccacaac	caaracttga	ttttatcaac	aaaaaccct	aatataaac	ggsaaaaaag	180
atagatataa	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tggttatatg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300
gcataaatctg	tacaaaatta	aactgtcctt	tttggcattt	taacaaattt	gcaacgktct	360
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<210> 358
 <211> 630
 <212> DNA
 <213> Homo sapien

<400> 358						
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gtagaacaat	ttgggcagag	ggaaccttat	agaccctaag	gtgggaaggt	tcaaagaact	300
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gggtagactg	gactaggtaa	gactggaggc	aggtagacct	cttctaaggc	ctgcgatagt	540
gaaagacaaa	aataagtggg	gaaattcagg	ggatagtgaa	aatcagtagg	acttaatgag	600
caagccagag	gttctctccac	aacaaccagt				630

<210> 359
 <211> 620
 <212> DNA
 <213> Homo sapien

<400> 359						
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ctcaccagaa	gaataaagtg	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
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<210> 361
<211> 351
<212> DNA
<213> Homo sapien

<400> 361
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caatctgga ttcaatgtct gaaacctcgc tctctgcctg ctggacttct gaggccgtca 300
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<210> 362
<211> 463
<212> DNA
<213> Homo sapien

<400> 362
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<210> 363
<211> 653
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

<400> 363
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<400> 364
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<210> 365
 <211> 356
 <212> DNA
 <213> Homo sapien

<400> 365
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 gactgtcacg atgtgtatag tacagtttga caagcctggg tccatacaga ccgctggaga 300
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<210> 366
 <211> 1851
 <212> DNA
 <213> Homo sapien

<400> 366
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<210> 367

<211> 668

<212> DNA

<213> Homo sapien

<400> 367

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<210> 368

<211> 1512

<212> DNA

<213> Homo sapien

<400> 368

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<210> 369

<211> 1853

<212> DNA

<213> Homo sapien

<400> 369

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<210> 370

<211> 2184

<212> DNA

<213> Homo sapien

<400> 370

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<210> 371

<211> 1855

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1855)

<223> n = A,T,C or G

<400> 371

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<210> 372

<211> 1059

<212> DNA

<213> Homo sapien

<400> 372

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catctggcct	ctgccaatgg	gaattcagaa	gtagtaaaac	tcstgctgga	cagacgatgt	360
caacttaatg	tccttgacaa	caaaaagagg	acagctctga	yaaaggccgt	acaatgccag	420
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<210> 373

<211> 1155

<212> DNA

<213> Homo sapien

<400> 373

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gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
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<210> 374

<211> 2000

<212> DNA

<213> Homo sapien

<400> 374

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tgggtgctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	ggcgcttgg	360
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gacaagctcc	acagagctgc	ctggtgggg	aaagtcccca	gaaaggatct	catcgctcatg	480
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<210> 375

<211> 2040

<212> DNA

<213> Homo sapien

<400> 375

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gaaaaagaca	tcttgcatga	aaatagtacg	ttgcgggaag	aaattgccat	gctaagactg	1980
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<210> 376

<211> 329

<212> PRT

<213> Homo sapien

<400> 376

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Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
 35      40      45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
 50      55      60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
 65      70      75      80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
 85      90      95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
 100     105     110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
 115     120     125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
 130     135     140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
 145     150     155     160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
 165     170     175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
 180     185     190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
 195     200     205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
 210     215     220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
 225     230     235     240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
 245     250     255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
 260     265     270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
 275     280     285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
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Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
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Ser Met Leu Phe Leu Val Ile Ile Met
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<210> 377

<211> 148

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(148)

<223> Xaa = Any Amino Acid

<400> 377

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Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys
      35          40          45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu
      50          55          60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp
      65          70          75          80
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp
      85          90          95
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro
      100          105          110
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp
      115          120          125
Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser
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Lys Asn Lys Val
145

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<210> 378

<211> 1719

<212> PRT

<213> Homo sapien

<400> 378

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      20          25          30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
      35          40          45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
      50          55          60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
      65          70          75          80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
      85          90          95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
      100          105          110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
      115          120          125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
      130          135          140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
      145          150          155          160
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
      165          170          175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu

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610 615 620
 Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys
 625 630 635 640
 Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys
 645 650 655
 Asn Lys His Gly Leu Thr Pro Leu Leu Gly Val His Glu Gln Lys
 660 665 670
 Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala
 675 680 685
 Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly
 690 695 700
 Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser
 705 710 715 720
 Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser
 725 730 735
 His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln
 740 745 750
 Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys
 755 760 765
 Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser
 770 775 780
 Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp
 785 790 795 800
 Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly
 805 810 815
 Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn
 820 825 830
 Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe
 835 840 845
 Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser
 850 855 860
 Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn
 865 870 875 880
 Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu
 885 890 895
 Glu Gly Ser Glu Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile
 900 905 910
 Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn
 915 920 925
 Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro
 930 935 940
 Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu
 945 950 955 960
 Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe
 965 970 975
 Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His
 980 985 990
 Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser
 995 1000 1005
 Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu
 1010 1015 1020
 Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His
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 Gln Ser Gln Leu Pro Arg Thr His Met Val Val Glu Val Asp Ser Met

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 Pro Ala Ala Ser Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met
 1060 1065 1070
 Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys
 1075 1080 1085
 Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr
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 Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys
 1105 1110 1115 1120
 Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp
 1125 1130 1135
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His
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 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg
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 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys
 1205 1210 1215
 Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly
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 1235 1240 1245
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 1250 1255 1260
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro
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 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr
 1285 1290 1295
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 1365 1370 1375
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 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr
 1395 1400 1405
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 1425 1430 1435 1440
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 1445 1450 1455
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 1460 1465 1470
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1475 1480 1485
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 1490 1495 1500
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys
 1505 1510 1515 1520
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser
 1525 1530 1535
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 1540 1545 1550
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser
 1555 1560 1565
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe
 1570 1575 1580
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe
 1585 1590 1595 1600
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly
 1605 1610 1615
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro
 1620 1625 1630
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln
 1635 1640 1645
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile
 1650 1655 1660
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser
 1665 1670 1675 1680
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn
 1685 1690 1695
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr
 1700 1705 1710
 Met Lys His Gln Ser Gln Leu
 1715

<210> 379
 <211> 656
 <212> PRT
 <213> Homo sapien

<400> 379
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 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125

Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys
 515 520 525
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly
 530 535 540
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser
 545 550 555 560

275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp
 515 520 525
 Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys
 530 535 540
 His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala
 545 550 555 560
 Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg
 565 570 575
 Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr His
 580 585 590
 Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn
 595 600 605
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile
 610 615 620
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys
 625 630 635 640
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
 645 650 655
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 660 665 670

<210> 381

<211> 251

<212> DNA

<213> Homo sapien

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<210> 382
<211> 3279
<212> DNA
<213> Homo sapiens
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<400>	382						
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cactgggagg	ggacatcctg	cagaaggtag	gagtgagcaa	acacccgctg	caggggaggg	180	
gagagccctg	cggcacctgg	gggagcagag	ggagcagcac	ctgcccaggc	ctgggaggag	240	
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gccacaggag	gacactgctt	ttcctctgag	gagtcaggag	ctgtggatgg	tgtctggacag	420	
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caagtagtga	tgataaatatg	tacaaagtaa	ttccaactga	ggaagctcac	ctgaccttta	2280	
gtgtccaggg	tttttactgg	gggtctgtag	gacgagtatg	gagtacttga	ataattgacc	2340	
tgaagtccctc	agacctgagg	ttccctagag	ttcaaacaga	tacagcatgg	tccagagtcc	2400	

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cagatgtaca aaaacagggg ttcatacaaa atcccatctt tagcatgaag ggtctggcat 2460
ggcccaaggc cccaagtata tcaaggcact tgggcagaac atgccaagga atcaaagtgc 2520
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aaagaagaat ccagaaatag gggcacattg aggaatgata ctgagcccaa agagcattca 2760
atcattgttt tatttgcctt cttttcacac cattggtgag ggagggatta ccaccctggg 2820
gttatgaaga tggttgaaca cccacacat agcaccggag atatgagatc aacagtttct 2880
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acaagacggg ggggcaaact ctgatttccg tgggggaatg tcatggtctt gctttactaa 3060
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cccagctgat agaggaagta gccagggtgg agcctttccc agtgggtgtg ggacatatct 3180
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gttttcagac cttaaaaaaa aaaaaaaaaa aaaagtctt 3279

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<210> 383

<211> 154

<212> PRT

<213> Homo sapiens

<400> 383

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Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
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Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
      20                                25                                30

His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
      35                                40                                45

Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
      50                                55                                60

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
      65                                70                                75                                80

Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
      85                                90                                95

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
      100                                105                                110

Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
      115                                120                                125

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
      130                                135                                140

Ala Leu Glu Arg Gly His Leu Val Arg Glu
      145                                150

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<210> 384

<211> 557
 <212> DNA
 <213> Homo sapiens

<400> 384
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 aaagatgtgt tttgttttgg actctctgtg gtcccttcca atgctgtggg tttccaacca 120
 ggggaagggt cccttttgca ttgccaagtg ccataaaccat gagcactact ctaccatggg 180
 tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
 acttaacctt gaaatggaaa gtcttgcaat ccattttgca ggatccgtct gtgcacatgc 300
 ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
 tccccaaagac acatcctaaa aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc 420
 ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480
 tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540
 aaaaaaaaaa aaaaaaa 557

<210> 385
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 385
 ttcccagggtg atgtgcgagg gaagacacat ttactatcct tgatgggggt gattccttta 60
 gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
 tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180
 aaacgtggag gtgcttttcc tcagetaaga agcccttagc aaaagctcga atagacttag 240
 tatcagacag gtccagtttc cgcaccaaca cctgctgggt ccctgtcgtg gtctggatct 300
 ctttggccac caattccccc ttttccacat cccggca 337

<210> 386
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 386
 gggcccgcta ccggcccagg cccgcctcg cgagtcctcc tccccgggtg cctgcccgca 60
 gccgcgtcgg cccagagggg gggcgcgggg ctgcctctac cggctggcgg ctgtaactca 120
 gcgaccttgg ccggaaggct ctagcaagga cccaccgacc ccagccgagg cggcgggcgc 180
 gcggactttg cccggtgtgt ggggcggagc ggactgcgtg tccgcggacg ggcagcgaag 240
 atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 387
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 cccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
 tgaaccagga ccggcttctg ggcggtgaa aggggcaagg aggcaaggac cccgtctctc 180
 ccacggatgg ggagagggca ggaggagacc cagccaagtg ccttttctctc agcactgagg 240
 gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggct gtccctctgg 300
 gcggcccagc acttctcag acacaacttc ttctgtctgc tccagtcgtg gggatcatca 360
 cttaccacc acccaagttc aagaccaaata cttccagctg ccccttctgt gtttccctgt 420

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gtttgctgta gctgggcatg tctccaggaa ccaagaagcc ctcagcctgg tgtagtctcc 480
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaaa aaaaaaa 537

```

```

<210> 388
<211> 520
<212> DNA
<213> Homo sapiens

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<400> 388
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gtttgaagat tgcctcttct acagcttctg agaatttgtt tatttcactt gccaaagtga 180
ggacccccctc cccaacatgc ccagccccac ccctaagcat ggtcccttgt caccaggcaa 240
ccaggaaact gctacttgtg gacctcacca gagaccagga gggtttggtt agctcacagg 300
acttccccca cccagaaga ttagcatccc atactagact catactcaac tcaactaggc 360
tcatactcaa ttgatggTTa ttagacaatt ccatttcttt ctggTTatta taaacagaaa 420
atctttctctc ttctcattac cagtaaaggc tcttggtatc tttctgTTgg aatgatttct 480
atgaacttgt cttattttta tggTgggttt tttttctggt 520

```

```

<210> 389
<211> 365
<212> DNA
<213> Homo sapiens

```

```

<400> 389
cgTTgccccA gTTtgacaga agGaaaggcg gagcttattc aaagtctaga gggagTggag 60
gagTTaaggc tggatttcag atctgcctgg ttccagccgc agtgtgcoct ctgctcccc 120
aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
aagcctatgg ccagctgtct ttgtgttccc tctcaccgc ctgtcctcac agctgagact 240
cccaggaaac cttcagacta ccttcctctg ccttcagcaa ggggcgttgc ccacattctc 300
tgagggtcag tggaagaacc tagactccca ttgctagagg tagaaagggg aagggtgctg 360
gggag 365

```

```

<210> 390
<211> 221
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(221)
<223> n = A,T,C or G

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<400> 390
tgctcttcca tcttggtccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
tacacggntt ctcatgggtg tggaacatct ctgcttgcgg tttcaggaag gcctctggct 120
gctctangag tctgannga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gagggagtgg aggagttaag gctggatttc a 221

```

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<210> 391
<211> 325
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_feature
 <222> (1)...(325)
 <223> n = A,T,C or G

<400> 391
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 ctctcgcgcc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120
 tagccagggc actgctgcca acagccagtc cnnataccat catgtnaccc ggtgngctct 180
 naanttngat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240
 cactgccag gaatcctaca gccagtaccc tgtcccagcg tctctaccta ccagtacgat 300
 gagacctccg gctactacta tgacc 325

<210> 392
 <211> 277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(277)
 <223> n = A,T,C or G

<400> 392
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 antaccanga accgncatgn ctttaanaacn ncctggtttn tgggttnntc aatgactgca 180
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240
 ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277

<210> 393
 <211> 566
 <212> DNA
 <213> Homo sapiens

<400> 393
 actagtccag tgtggtggaa ttgcgggccg cgtcgacgga caggtcagct gtctggctca 60
 gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga ttaaattcag cctaaacggt 120
 ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180
 gagaaggtct agtttgtcca tcagcattat catgatatca ggactggta cttgggttaag 240
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 ggggtggtttt caaaaagtaga aatgtcctgt attcogatga tcatcctgta aacattttat 360
 catttattaa tcatccctgc ctgtgtctat tattatattc atatctctac gctggaaact 420
 ttctgcctca atgtttactg tgcctttgtt tttgctagtt tgtgttgttg aaaaaaaaaa 480
 cattctctgc ctgagtttta atttttgtcc aaagttattt taatctatac aattaaaagc 540
 ttttgcctat caaaaaaaaaa aaaaaa 566

<210> 394
 <211> 384
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(384)

<223> n = A,T,C or G

<400> 394

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gcaggaggac cgggctttta ggagttttta gctgagtgtc actgtagacc ccaaatacca 180
tcccaagatt atcggggagaa agggggcagt aattacccaa atccggttgg agcatgacgt 240
gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
agggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384
```

<210> 395

<211> 399

<212> DNA

<213> Homo sapiens

<400> 395

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ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
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ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcattct ctcactacag acctctgacc atgggacggg 360
gcagcctggg gagaccatcc aatcccaaat aaaatgcac 399
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<210> 396

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(403)

<223> n = A,T,C or G

<400> 396

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agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gttttagggga gggagtgagg gataaaaagaa ggaaaaaaaag aagagtgaga aaacctattt 360
atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403
```

<210> 397

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(100)

<223> n = A,T,C or G

<400> 397
 actagtnacag tgtggtggaa ttcgcggccg cgtcgaccta naanccatct ctatagcaaa 60
 tccatccccg ctcttggttg gtnacagaat gactgacaaa 100

<210> 398
 <211> 278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(278)
 <223> n = A,T,C or G

<400> 398
 ggcgcgcgt cgacagcagt tccgccagcg ctgcccctg ggtggggatg tgctgcacgc 60
 ccacctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
 tcaactactgt gcctcgacca gtgaggagag ctggaccgac agcgaggttg actcatcatg 180
 ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240
 ctatggccgc ttcattangt ggctcaacaa ggagaagg 278

<210> 399
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

<400> 399
 acggaggttg aggaagcgnc cctgggatcg anaggatggg tcctgncatt gaccncctcn 60
 ggggtgccng catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcgtgggct 120
 ccgagatcga gcgcatgggc ctggtcatgg accgcatggg ctccgtggag cgcattgggct 180
 ccggcattga gcgcatgggc ccgctggggc tcgaccacat ggctccanc attgancgca 240
 tgggccagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcatggg 298

<210> 400
 <211> 548
 <212> DNA
 <213> Homo sapiens

<400> 400
 acatcaacta cttcctcatt ttaaggtatg gcagttccct tcatcccctt ttctgcctt 60
 gtacatgtac atgtatgaaa tttccttctc ttacogaact ctctccacac atcacaagg 120
 caaagaacca cagccttaga agggtaagag ggcaccctat gaaatgaaat ggtgatttct 180
 tgagtctctt ttttccacgt ttaaggggcc atggcaggac ttagagttgc gagttaagac 240
 tgcagagggc tagagaatta tttcatacag gctttgaggc caccatgtc acttatccc 300
 tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360
 gttggcccca taattctggg cttttgttgt ttgttttaat tacttgggca tcccaggaag 420
 ctttccagt atctcctacc atgggcccc ctctgaggat caagccctc ccaggccctg 480
 tccccagccc ctctgcccc agcccaccg cttgccttgg tgcctagccc tcccattggg 540

agcagggtt

548

<210> 401

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(355)

<223> n = A,T,C or G

<400> 401

```

actgtttcca tgttatgttt ctacacattg ctacctcagt gctcctggaa acttagcttt 60
tgatgtctcc aagtagtcca ccttcattta actccttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgcc atggtggcgg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggt 300
cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggn tctgc 355

```

<210> 402

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(407)

<223> n = A,T,C or G

<400> 402

```

atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaacca 60
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag cagggtgttg actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaagggtggtc ctgacctttg ataaatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctcccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgatattt ctgacaactc cttttctgaa gttttactca tttccaa 407

```

<210> 403

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(303)

<223> n = A,T,C or G

<400> 403

```

cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaatcc aggcacaaaa 60
tcttaagcaa gagccatggc atggtgaaaa tgcaaaagga gactctggcc aatctacaaa 120
tagagaacaa gacctactca gtcataaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240

```

tcttaacaac gaccgaaacc cattatattac ataaacctcc attcggtaac catgttgaaa 300
gga 303

<210> 404
<211> 225
<212> DNA
<213> Homo sapiens

<400> 404
aagtgttaact tttaaaaaatt tagtggatttt tgaaaatttct tagaggaaaag taaaggaaaa 60
attgtttaatg cactcatatta cctttacatg gtgaaagtgc tctcttgatc ctacaaacag 120
acattttcca ctctgtgtttc catagtgtgtt aagtgtatca gatgtgttgg gcatgtgaat 180
ctccaagtgc ctgtgttaata aataaagtat ctttatttca ttcat 225

<210> 405
<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(334)
<223> n = A,T,C or G

<400> 405
gagctgttat actgtgagtt ctactaggaa atcatcaaatt ctgaggggttg tctggaggac 60
ttcaatacac ctccccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120
tcatccccat cccatgccaa aggaagaccg tccctccttg gctcacagcc ttctctaggc 180
ttcccagtgc ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtg 240
ctggtgcggg tgtgcctcca gcttctgctc agtgcctcat ggacagtgtc cagcccatgt 300
cactctccac tctctcannng tggatcccac ccct 334

<210> 406
<211> 216
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

<400> 406
tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcaattgct 120
acnaaacaca aatttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant 216

<210> 407
<211> 413
<212> DNA
<213> Homo sapiens

<400> 407


```

cccagggacc ttggaacag ttggcactgt aagggtgcttg ctccccaaga cacatcctaa 180
aagggtgttg aatgggtgaaa accgcttcct tctttattgc cccttcttat ttatgtgaac 240
nactggttgg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tcntgc                                           306

```

```

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

```

```

<400> 411
agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggngaggcaa a                                           261

```

```

<210> 412
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

```

```

<400> 412
gttcaatgtt acctgacatt totacaacac cccactcacc gatgtattcg ttgcccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgcccagg aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tctactgggtta cattgaattc ccaaactacc cangcaatta ccagccaac 240
a                                           241

```

```

<210> 413
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

```

```

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtag cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tctctatttg gaacctaaaa actctcttct tcttgggtct gagggctcca 180
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t           231

```

<210> 414
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 414
 actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60
 gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120
 gtgagccaag gagggagggt cttcctttgg catgggatgg ggatgaagta aggagaggga 180
 ctggaccccc tggaagctga ttcactatgg ggggagggtg attgaagtcc tcca 234

<210> 415
 <211> 217
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(217)
 <223> n = A,T,C or G

<400> 415
 gcataggatt aagactgagt atcttttcta cattctttta actttctaag gggcacttct 60
 caaaacacag accaggtagc aaatctccac tgctctaagg ntctcaccac cactttctca 120
 cacctagcaa tagtagaatt cagtcctact tctgaggcca gaagaatggt tcagaaaaat 180
 antggattat aaaaaataac aattaagaaa aataatc 217

<210> 416
 <211> 213
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(213)
 <223> n = A,T,C or G

<400> 416
 atgcatatnt aaagganact gcctcgcttt tagaagacat ctggnctgct ctctgcatga 60
 ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120
 cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180
 atattggaac agatggagtc tctactacaa aag 213

<210> 417
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

```

<400> 417
nagtccttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
gtgggaaagg ctttactctg agttcaaato ttcaagccca tcagagagtc cacactggag 120
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt ggaagggt 240
tcantcaaag ttctgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
agt 303

```

```

<210> 418
<211> 328
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 418
tttttgccgg tgggtggggca gggacgggac angagtctca ctctgttgcc caggctggag 60
tgcaaggcca tgatctcggc tcactacaac cctgcctcc catgtccaag cgattcttgt 120
gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
gtatttttag tagagacagg gtttcaccat gttggccagg ctggtctcaa actcctnacc 240
tcagnggtca ggctggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtgctan gattacaggc cgtgagcc 328

```

```

<210> 419
<211> 389
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(389)
<223> n = A,T,C or G

```

```

<400> 419
cctcctcaag acggcctgtg gtccgcctcc cggcaaccaa gaagcctgca gtgccatattg 60
acccttgagc catggactgg agcctgaaag gcagcgtaca cctgctcct gatcttgctg 120
cttgtttctt ctctgtggct ccattcatag cacagtgtgt gactgaggc ttgtgcaggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggg gtgccaggca 240
ccggttctcc agccaccaac ctactcgtct cccgcaaagt gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtcct ctgctctatc agccatcacg 360
tggcagccac tcnggctgtg tcgacgcgg 389

```

```

<210> 420
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<400> 420
gttctctcta actcctgcc aaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggtt tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180

```

```

gtccattga cacccttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgctatg acaaacctgg caagcccc 408

```

```

<210> 421
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 421
gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacagggtct tttttgggtc cttcttctcc accacnatat acttgagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacagggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcagtgc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttctc gg 352

```

```

<210> 422
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 422
atgccaccat gctggcaatg cagcggggcg tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgccogaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gcgatagcaa ggtgccggcg atcgcggcgg cgtcaatcct ggccaaggct agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggtc 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337

```

```

<210> 423
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

```

```

<400> 423
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggccctggcct gggagccctg tgcctactan aagcncatta gattatccat 120
tcaactgacag aacagggtctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacagggtgt anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta 310

```

<210> 424
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(370)
 <223> n = A,T,C or G

<400> 424
 gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
 ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
 cactgacaga acaggtcttt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180
 ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240
 gggtgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
 cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
 tccgtcgacg 370

<210> 425
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(216)
 <223> n = A,T,C or G

<400> 425
 aattgctatn nttttatttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaata 60
 taacaacnca acatcaaggn aaananaaca ggaatggntg actntgcata aatnggccga 120
 anattatcca ttatnttaag gggtgacttc aggntacagc acacagacaa acatgcccag 180
 gaggnntnca ggaccgctcg atgtntntng aggagg 216

<210> 426
 <211> 596
 <212> DNA
 <213> Homo sapiens

<400> 426
 cttccagtga ggataaccct gttgccccgg gccgagggtc tccattaggc tctgattgat 60
 tggcagtcag tgatggaagg gtgttctgat cattccgact gccccagggt tcgctggcca 120
 gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatgggtga 180
 gctgtccttg tattttgatt aacctaatgg ccttcccagc acgactcgga ttcagctgga 240
 gacatcacgg caacttttaa tgaaatgatt tgaagggccca ttaagaggca cttcccgtaa 300
 ttaggcagtt catctgcact gataacttct tggcagctga gctggctgga gctgtggccc 360
 aaacgcacac ttggcttttg gttttgagat acaactotta atcttttagt catgcttgag 420
 ggtggatggc cttttcagct ttaacccaat ttgcaactgc ttggaagtgt agccaggaga 480
 atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggtc tactgcctga 540
 gtcccgcgtgg tcccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

<210> 427
 <211> 107

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(107)
<223> n = A,T,C or G

<400> 427
gaagaattca agttaggttt attcaaaggg cttacngaga atcctanacc caggncaccag 60
cccgggagca gccttanaga gctcctgttt gactgcccgg ctcagng 107

<210> 428
<211> 38
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(38)
<223> n = A,T,C or G

<400> 428
gaacttcna anaangactt tattcactat ttacatt 38

<210> 429
<211> 544
<212> DNA
<213> Homo sapiens

<400> 429
ctttgctgga cggaataaaa gtggacgcaa gcatgacctc ctgatgaggg cgctgcattt 60
attgaagagc ggctgcagcc ctgcggttca gattaaaatc cgagaattgt atagacgccg 120
atatccacga actcttgaag gactttctga tttatccaca atcaaatcat cggttttcag 180
tttggatggg ggctcatcac ctgtagaacc tgacttgccc gtggctggaa tccactcggt 240
gccttccact tcagttacac ctcaactcacc atcctctcct gttggttctg tgctgcttca 300
agatactaag cccacatttg agatgcagca gccatctccc ccaattcctc ctgtccatcc 360
tgatgtgcag ttaaaaaatc tgccctttta tgatgtcctt gatgtttctca tcaagcccac 420
gagtttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480
acctcaacaa gttagagaga tatgcatatc cagggatttt ttgccagggtg gtaggagaga 540
ttat 544

<210> 430
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(507)
<223> n = A,T,C or G

<400> 430
cttatcncaa tggggctccc aaacttggct gtgcagtgga aactccgggg gaattttgaa 60

```

gaacactgac acccatcttc caccgccgaca ctctgattta attgggctgc agtgagaaca 120
gagcatcaat ttaaaaagct gcccagaatg ttntcctggg cagcggttg atctttgccn 180
ccttcgtgac tttatgcaat gcacatgct atttcatacc taatgagga gttccaggag 240
attcaaccag gatgtttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
caagaaggag gactgcaagt atatcgtggg ggagaagaag gacccaaaaa agacctgttc 360
tgtcagtga tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
cattctctc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaa 507

```

```

<210> 431
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

```

```

<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattatit gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtccctgggtt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgttgttagg taaaatgtac aacttctgga tctatgcaga cattgaaggt 360
gcaatgagtc tggcttttac tctgtgttt ct 392

```

```

<210> 432
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A,T,C or G

```

```

<400> 432
ggtatccta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120
ngtagtccaa gctctcgga gtccagccac tgngaaacat gctcccttta gattaacctc 180
gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240
attctgttgc ttctggggca ttcccttng atgcagagga ccaccacaca gatgacagca 300
atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgta aggaccggga 360
acaacgtata gaacactgga gtccctt 387

```

```

<210> 433
<211> 281
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> (1)...(281)

<223> n = A,T,C or G

<400> 433

```
ttcaactagc anagaanact gcttcagggg gtgtaaaatg aaaggcttcc acgcagttat 60
ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
caggcnctat ttgggttggc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
atcgccgtgg ctattcctcn ttgntattac accagnagag ntctctgtnt gccactggt 240
tnnaaaaccg ntatacaata atgatagaat aggacacaca t 281
```

<210> 434

<211> 484

<212> DNA

<213> Homo sapiens

<400> 434

```
ttttaaaata agcatttagt gctcagtcct tactgagtac tttttctctc cctcctctctg 60
aatttaattc tttcaacttg caatttgcaa ggattacaca tttcactgtg atgtatattg 120
tggtgcaaaa aaaaaaaagt gtctttgttt aaaattactt ggtttgtaga tccatcttgc 180
tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
agctagtcta tcagcatctg acaggtgaat tggatggttc tcagaacctt ttcaccaga 300
cagcctgttt ctatcctgtt taataaatta gtttggttct tctacatgca taacaaaccc 360
tgctccaatc tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccaaac 420
tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtc 480
ttta 484
```

<210> 435

<211> 424

<212> DNA

<213> Homo sapiens

<400> 435

```
gcgccgctca gagcaggcca ctttctgcct tccacgtcct ccttcaagga agccccatgt 60
gggtagcttt caatatcgca ggttcttact cctctgcctc tataagctca aaccaccaa 120
cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgag 180
atgggcctgt ggggaggggg caagatagat gagggggagc ggcattggtgc ggggtgaccc 240
cttgagagag ggaaaaaggc cacaagaggg gctgccaccg ccaactaacg agatggccct 300
ggtagagacc tttgggggtc tggaaacctc ggactcccca tgccttaact cccacactct 360
gctatcagaa acttaaactt gaggattttc tctgtttttc actcgcaata aattcagagc 420
aaac 424
```

<210> 436

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(667)

<223> n = A,T,C or G

<400> 436

```
accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60
tcttgcccat gtaatctga aagttttccc aaggtagcta taaaatcctt ataaggggtc 120
```

```

agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cgggtcaacgt ctgtgcttcg aatataaacc 360
tgttcatgtt tataggactc attcaagaat tttctatata tctttcttat atactctcca 420
agttcataat gctgctccat gccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaagggt tcaatgggac ttcgggtctcc atgccgaaac 540
accaaagtca caaacttcaa ctccctggct agtacacttc ggtctagcca gaaaaaaagc 600
agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660
tgttgag 667

```

```

<210> 437
<211> 693
<212> DNA
<213> Homo sapiens

```

```

<400> 437
ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaag ctggattggc acactaggac tctaccatac cgggttttgt 120
taaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttttcagatc 180
ataaaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
aggtactcct ctattttcac cctcttggct tctactctct ggcagtcaga cctgtgggag 300
gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
catttctcca ggttacccta ggtgtcacta ttggggggac agccagcatc tttagctttc 420
atltgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acacctaact gctgttgctc ctgaggtggg gaaagacaga tatagagctt acagtattta 540
tcctatttct aggcaactgag ggctgtgggg taccttggg tgccaaaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
ctgcatcatg tgctctcttg gctgaaaatg acc 693

```

```

<210> 438
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<400> 438
ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgagggag ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaaag acaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctgggtg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctotaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

```

```

<210> 439
<211> 431
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

```

```

<400> 439

```

```

gttcctnnta actcctgcc aaaacagctc tctcaacat gagagctgca cccctcctcc 60
tgccagggc agcaagcctt agccttggct tcttgttct gcttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtccattga cacctttccc actgacccca taaaggaatc ctcattggca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gactcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctga cgcggccgcg 420
aatttagtag t                                     431

```

<210> 440
 <211> 523
 <212> DNA
 <213> Homo sapiens

```

<400> 440
agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaacc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaattaa aacctctttg tgtcccttgg tcttggaaac ttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcatctga tgagaacaag cta                               523

```

<210> 441
 <211> 430
 <212> DNA
 <213> Homo sapiens

```

<400> 441
gttcctccta actcctgcc aaaacagctc tctcaacat gagagctgca cccctcctcc 60
tgccagggc agcaagcctt agccttggct tcttgttct gcttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtccattga cacctttccc actgacccca taaaggaatc ctcattggca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gactcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctga cgcggccgcg 420
aatttagtag                                     430

```

<210> 442
 <211> 362
 <212> DNA
 <213> Homo sapiens

```

<400> 442
ctaaggaatt agtagtggtc ccatcacttg tttggagtgt gctattotaa aagattttga 60
tttcttgtaa tgacaattat attttaactt tgggtgggga aagagttata ggaccacagt 120
cttcaattct gatacttgta aattaatctt ttattgcact tgttttgacc attaagctat 180
atgttttagaa atggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc                                     362

```

<210> 443
 <211> 624
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(624)
 <223> n = A,T,C or G

<400> 443
 tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
 ttgaaagaat taaattcaga ggaggggaga gaaagagtag tcagtaggga ctgagcacta 120
 aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
 tgctggctag tactccggtc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
 cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaacttgg cttcctgttt 300
 tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaataaac 360
 taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtag 420
 atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgctaata 480
 agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaga 540
 ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tatttaaact 600
 ttgtccctat ctgctaaaca gatc 624

<210> 444
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(425)
 <223> n = A,T,C or G

<400> 444
 gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
 gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
 ttcatgtcta tagcataaca caaaatttgc ataagtgggtg gtcagcaaata ccttgaatgc 180
 tgcttaatgt gagagggttg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
 gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
 cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacacctg gaagagccaa 360
 ggaggcacca gggcataagt gagtagactt atggctcgacg cggccgcgaa tttagtagta 420
 gtaga 425

<210> 445
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n = A,T,C or G

<400> 445

```

catgtttatg nttttggatt actttgggca cctagtgttt ctaaactgtc tatcattctt 60
ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120
tgaaattctt tgcatgtggc agattattgg atgtagtctt ctttaactag catataaatc 180
tggtgtgttt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240
aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300
ggatttttat aatcctactc acaaatagact aggtctctcc tcttgatatt tgaagcagtg 360
tgggtgctgg attgataaaa aaaaaaaaaa tgcagcgggc cgcaattta gtag 414

```

<210> 446

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(631)

<223> n = A,T,C or G

<400> 446

```

acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60
tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcagggtgtg 120
atgctgggta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180
ccggtcctgt acgatttcag tatgtcttaa tgcagctgtg gattggaaca attcagattg 240
ctgtcatctg tgtggtggtc ctctgcatca caagggccaa actttaggta atagcattgg 300
actgagattt gtaaaacttc caaccttcca ggaaatgccc cagaagcaac agaattcaca 360
gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420
taatctaaag ggagcatggt tcacagtggc tggactaccg agagcttgga ctacacaata 480
cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccctg catttggtgtg 540
aatctacacc aatgaaaaca tgtactacag ctatatattga ttatgtatgg atatatttga 600
aatagtatac attgtcttga tgttttttct g 631

```

<210> 447

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(585)

<223> n = A,T,C or G

<400> 447

```

ccttgggaaa antntcacia tataaagggt cgtagacttt actccaaatt ccaaaaagggt 60
cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120
gcctcttctg gaattcctct gatttcaaag tctcactctc aagttcttga aaacgagggc 180
agttcctgaa aggaggtat agcaactgat cttcagaaag aggaactgtg tgcaccggga 240
tgggctgcca gaggtagata ggattccaga tgctgacacc ttctggggga aacagggtctg 300
ccaggtttgt catagcactc atcaaagtcc ggtcaacgtc tgtgcttcga atataaacct 360
gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420
gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaagggtg caatgggact tccgtctcca tgccgaaaca 540
ccaaagtcac aaacttcaac tccttggcta gtacacttcg gtcta 585

```

<210> 448

<211> 93
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(93)
 <223> n = A,T,C or G

<400> 448
 tgctcgtggg tcattctgan nnccgaactg accntgccag ccctgccgan gggccnccat 60
 ggctccctag tgccctggag agganggggc tag 93

<210> 449
 <211> 706
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(706)
 <223> n = A,T,C or G

<400> 449
 ccaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60
 ttctgancac cgaactgacc atgccagccc tgccgatggc cctccatggc tccctagtgc 120
 cctggagagg aggtgtctag tcagagagta gtccctggaag gtggcctctg ngaggagcca 180
 cggggacagc atcctgcaga tggtcgggcg cgtcccattc gccattcagg ctgcgcaact 240
 gttgggaagg gcgatcgggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300
 gtgctgcaag gcgattaagt tgggtaacgc cagggttttc ccagtncga cgttgtaaaa 360
 cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcattgcacg 420
 cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc ggggcccgcgt 480
 cgacgtggga tccncaactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
 cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
 aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncccca 660
 gcatggatga cagagtga aa ctccatctta aaaaaaaaaa aaaaaa 706

<210> 450
 <211> 493
 <212> DNA
 <213> Homo sapiens

<400> 450
 gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
 acagttttta aaggtaaaac aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
 aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180
 agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
 caagtcagggt agtgaaatgg gtggaattaa actcaaatat atcctgccag ctgaaacgca 300
 agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360
 tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420
 tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcggcc 480
 gcgaatttag tag 493

<210> 451

<211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 451
 gggcgcgtcc cattcgccat tcaggctgcg caactgttgg gaagggcgat cgggtgcgggc 60
 ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120
 aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180
 tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240
 gcggccgcct actactacta aattcgcggc cgcgtcgacg tgggatccnc actgagagag 300
 tggagagtga catgtgotgg acnctgtcca tgaagcactg agcagaagct ggaggcacia 360
 cgcncagac actcacagct actcaggagg ctgagaacag gttgaacctg ggaggtggag 420
 gttgcaatga gctgagatca ggcncctgcn ccccgcatg gatgacagag tgaaactcca 480
 tcttaaaaaa aaaaaaaaaa a 501

<210> 452
 <211> 51
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(51)
 <223> n = A,T,C or G

<400> 452
 agacggtttc accnttacia cnccttttag gatgggnntt ggggagcaag c 51

<210> 453
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(317)
 <223> n = A,T,C or G

<400> 453
 tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60
 acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatggttc tcagaaccat 120
 ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180
 taacaaaccc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240
 cccaccaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
 taccatgtc tttatta 317

<210> 454
 <211> 231
 <212> DNA

<213> Homo sapiens

<400> 454

```
ttcgaggtag aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
taagccacgc cacgctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
ccttcctttt tcagtgttcc aaagctcctc acaatttcat gaacaacagc t 231
```

<210> 455

<211> 231

<212> DNA

<213> Homo sapiens

<400> 455

```
taccaaagag ggcataataa tcagtctcac agtaggggtc accatcctcc aagtgaaaaa 60
cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
gtttcaacgc attgatgact totccaagga tcttcctttg gcacgcacca cattcagggg 180
caaagaattt ctcatagcac agctcacaat acagggtctc tttctcctct a 231
```

<210> 456

<211> 231

<212> DNA

<213> Homo sapiens

<400> 456

```
ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
ttccattcag tattatcggtt attattcttg gagaaacct gtctgtttac tgtaaccttt 120
tgcactcaaa ttcctttatc aggaataact acatagccac tatttacaaa gccattggaa 180
cctttttatt tgggtgcagct gctagtcagt cctgactga cattgccaag t 231
```

<210> 457

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(231)

<223> n = A,T,C or G

<400> 457

```
cgaggtagcc aggggtctga aaatctctnn tttantagtc gatagcaaaa ttgttcatca 60
gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catacagttt 120
tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttctctt gaggtgtcgc tggcttttgt g 231
```

<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

```
aggtctgggt cccccactt ccaactccct ctactctctc taggactggg ctgggccaag 60
agaagagggg tgggttagga agccgttgag acctgaagcc ccaccctcta ctttcttca 120
```

acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180
 ggtcctgggt taggcatttt ggggggcccag accccaggag aagaagattc t 231

<210> 459
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 459
 ggtaccgagg ctcgctgaca cagagaaacc ccaacgcgag gaaaggaatg gccagccaca 60
 ccttcgcgaa acctgtggtg gccaccagt cctaacggga caggacagag agacagagca 120
 gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180
 actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

<210> 460
 <211> 231
 <212> DNA
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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 231

<212> DNA

<213> Homo sapiens

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<212> DNA

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 <211> 2229
 <212> DNA
 <213> Homo sapiens

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 <211> 2426
 <212> DNA
 <213> Homo sapiens

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<211> 812

<212> DNA

<213> Homo sapiens

<400> 471

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<210> 472

<211> 515

<212> DNA

<213> Homo sapiens

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<400> 472

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<210> 473

<211> 5829

<212> DNA

<213> Homo sapiens

<400> 473

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 <211> 1594
 <212> DNA
 <213> Homo sapiens

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<210> 475
<211> 2414
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (33)
<223> n=A,T,C or G

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<211> 3434

<212> DNA

<213> Homo sapiens

<400> 476

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<210> 477

<211> 140

<212> PRT

<213> Homo sapiens

<400> 477

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His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
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```

```

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
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His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
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```

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
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```

```

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
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```

```

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
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```

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
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Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
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<210> 478

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<213> Homo sapiens

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Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
 50 55 60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
 65 70 75 80

Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
 85 90 95

His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
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Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
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His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
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<210> 479

<211> 222

<212> PRT

<213> Homo sapiens

<400> 479

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Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
 20 25 30

Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
 50 55 60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
 65 70 75 80

Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser
 85 90 95

His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val

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145					150					155						160	
Cys	His	Thr	Asp	Thr	Thr	Thr	Ser	Leu	Pro	His	Phe	His	Val	Ser	Ala		
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Gly	Gly	Val	Gly	Pro	Thr	Thr	Leu	Gly	Ser	Asn	Arg	Glu	Ile	Thr	Trp		
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Thr	Tyr	Ser	Glu	Gly	Lys	Ile	Phe	Phe	Tyr	Phe	Leu	Gly	Asn	Gln	Ala		
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				20					25					30			
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Asp	Phe	Met	Phe	Lys	Cys	Arg	Lys	Gln	Pro	Gly	Leu	Pro	Pro	Ser	Gly		
		50					55					60					
Leu	Cys	Leu	Leu	Trp	Pro	Trp	Pro	Asn	Leu	Glu	Phe	Gly	Arg	Arg	Gln		
		65					70					75					
Asp	Arg	Leu	Thr	Trp	Ser	Ser	Val	Ser	Val	Ala	Gly	Val	Cys	Ala	Cys		
				85					90					95			
Arg	Ala	Arg	Pro	Gly	Trp	Leu	Gly	Glu	Gln	Pro	Ala	Thr	Ser	Ala	Gly		
				100					105					110			
Val	Arg	Leu	Glu	Gln	Val	Glu	Gln	Pro	Pro	Ala	His	Pro	Leu	Gln	Glu		
		115					120					125					

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
 130 135 140

<210> 481
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 481
 Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
 5 10 15

Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
 20 25 30

Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
 35 40 45

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
 50 55 60

Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
 65 70 75 80

Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
 85 90 95

Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
 100 105 110

Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
 115 120 125

Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
 130 135 140

Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
 145 150 155 160

Trp Leu Ser Arg Gly Arg Pro
 165

<210> 482
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 482
 Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val

5 10 15
 Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
 20 25 30
 Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
 35 40 45
 Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
 50 55 60
 Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
 65 70 75 80
 Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
 85 90 95
 Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
 100 105 110
 Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
 115 120 125
 Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
 130 135 140
 <210> 483
 <211> 143
 <212> PRT
 <213> Homo sapiens
 <400> 483
 Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
 5 10 15
 Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
 20 25 30
 Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
 35 40 45
 Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
 50 55 60
 Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
 65 70 75 80
 Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg
 85 90 95
 Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val
 100 105 110

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<210> 488
<211> 33
<212> DNA
<213> Artificial Sequence
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<220>

<223> Made in a lab

<400> 488

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33

<210> 489

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 489

Met	Asp	Arg	Leu	Val	Gln	Arg	Phe	Gly	Thr	Arg	Ala	Val	Tyr	Leu	Ala
1				5					10					15	

Ser Val Ala

<210> 490

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 490

Tyr	Leu	Ala	Ser	Val	Ala	Ala	Phe	Pro	Val	Ala	Ala	Gly	Ala	Thr	Cys
1				5					10					15	

Leu	Ser	His	Ser												
			20												

<210> 491

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 491

Thr	Cys	Leu	Ser	His	Ser	Val	Ala	Val	Val	Thr	Ala	Ser	Ala	Ala	Leu
1				5					10					15	

Thr	Gly	Phe	Thr												
			20												

<210> 492

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 492

Ala	Leu	Thr	Gly	Phe	Thr	Phe	Ser	Ala	Leu	Gln	Ile	Leu	Pro	Tyr	Thr
1				5					10					15	
Leu	Ala	Ser	Leu												
			20												

<210> 493

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 493

Tyr	Thr	Leu	Ala	Ser	Leu	Tyr	His	Arg	Glu	Lys	Gln	Val	Phe	Leu	Pro
1				5					10					15	
Lys	Tyr	Arg	Gly												
			20												

<210> 494

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 494

Leu	Pro	Lys	Tyr	Arg	Gly	Asp	Thr	Gly	Gly	Ala	Ser	Ser	Glu	Asp	Ser
1				5					10					15	
Leu	Met	Ile	Ser												
			20												

<210> 495

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 495

Asp	Ser	Leu	Met	Thr	Ser	Phe	Leu	Pro	Gly	Pro	Lys	Pro	Gly	Ala	Pro
1				5					10					15	
Phe	Pro	Asn	Gly												
			20												

<210> 496

<211> 21

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 496
 Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
 1 5 10 15
 Pro Pro Pro Pro Ala
 20

<210> 497
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 497
 Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val
 1 5 10 15
 Ser Val Arg Val
 20

<210> 498
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 498
 Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val
 1 5 10 15
 Val Pro Gly Arg
 20

<210> 499
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 499
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 1 5 10 15
 Ser Ala Phe Leu
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<210> 500
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 500
 Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met
 1 5 10 15
 Gly Ser Ile Val
 20

<210> 501
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 501
 Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met
 1 5 10 15
 Val Ser Ala Ala
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<210> 502
 <211> 414
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n=A,T,C or G

<400> 502
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 tcagtcggtg gaggagtccg ggggtcgcct ggtcacgcct gggacacctt tgacantcac 120
 ctgtagagtt tttggaatng aocctcagtag caatgcaatg agctgggtcc gccaggctcc 180
 agggaagggg ctggaatgga tccgagccat tgataattgt ccacantacg cgacctgggc 240
 gaaaggccga ttnatnatntt ccaaaacctn gaccacggtg gatttgaaaa tgaccagtcc 300
 gacaaccgag gacacggcca cctatntttg tggcagaatg aatactggta atagtgggtg 360
 gaagaatatt tggggcccag gcacctggt caccgtntcc tcagggcaac ctaa 414

<210> 503
 <211> 379
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature

<222> (1)...(379)
 <223> n=A,T,C or G

<400> 503
 atnogatggt gcttggtcaa aggtgtccag tgtcagtcgg tggaggagtc cgggggtcgc 60
 ctgggtcacgc ctgggacacc cctgacactc acctgcaccg tntctggatt ngacatcagt 120
 agctatggag tgagctgggt ccgccaggct ccagggaagg ggctgggnata catcgatca 180
 ttagtagtag tggtagatct tacgcgagct gggcgaaagg ccgattcacc atttccaaaa 240
 cctngaccac ggtggatttg aaaatcacca gtttgacaac cgaggacacg gccacctatt 300
 tntgtgccag aggggggttt aattataaag acatttgggg cccaggcacc ctggtcaccg 360
 tntccttagg gcaacctaa 379

<210> 504
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 504
 Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu
 1 5 10 15
 Asn Ser Ala

<210> 505
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 505
 Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr
 1 5 10 15
 Asn Thr Ala Asn
 20

<210> 506
 <211> 407
 <212> DNA
 <213> Homo Sapien

<400> 506
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 accgtctctg gattctccct cagtagcaat gcaatgatct gggcccgcca ggctccaggg 180
 aaggggctgg aatacatcgg atacattagt tatgggtgga gcgcatacta cgcgagctgg 240
 gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt 300
 ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg 360
 ttgtggggcc caggcaccct ggtcaccgtc tcctcagggc aacctaa 407

<210> 507
 <211> 422
 <212> DNA
 <213> Homo Sapien

<400> 507
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 tcggtggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgt 120
 acagtctctg gattctccct cagcaactac gacctgaact gggtcgccca ggctccaggg 180
 aaggggctgg aatggatcgg gatcattaat tatgttggta ggacggacta cgcgaactgg 240
 gcaaaaggcc ggttcaccat ctccaaaacc tcgaccaccg tggatctcaa gatcgccagt 300
 ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360
 ggtccgtgct tgcgcctctg gggcccaggc accctggtca ccgtctcctt agggcaacct 420
 aa 422

<210> 508
 <211> 411
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(411)
 <223> n=A,T,C or G

<400> 508
 atggagacag gcctgcgctg cttctcctgg tcgctgtgct caaaggtgtc cagtgtcagt 60
 cgtgaggagg gtcggggggg cgcttggtca cgctgggac acccctgaca ctccactgca 120
 cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccagggg 180
 aggggctgga atggatcgga atcattggta ctcttggtga cacatactac gcgaggtggg 240
 cgaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc 300
 cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360
 ctggttatta taaaatctgg ggcccaggca ccctggtcac cgtctccttg g 411

<210> 509
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 509
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1 5 10 15

<210> 510
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 510
 Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
 1 5 10 15

<210> 511
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 511
 Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys
 1 5 10 15

<210> 512
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 512
 Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu
 1 5 10 15

<210> 513
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 513
 Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu
 1 5 10 15

<210> 514
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 514
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1 5 10 15

<210> 515
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 515
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg
 1 5 10 15

<210> 516
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 516
 Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln
 1 5 10 15

<210> 517
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 517
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met
 1 5 10 15

<210> 518
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 518
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
 1 5 10 15

<210> 519
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Made in a lab

<400> 519

Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	Asn	Tyr	Asp	Glu	Gly	Cys
1				5				10					15		
Gly															

<210> 520

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 520

Val	Gly	Glu	Gly	Leu	Tyr	Gln	Gly	Val	Pro	Arg	Ala	Glu	Pro	Gly	Thr
1				5				10					15		
Glu	Ala	Arg	Arg	His	Tyr	Asp	Glu	Gly							
			20				25								

<210> 521

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 521

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5				10					15		
Pro	Pro	Pro	Pro	Ala											
				20											

<210> 522

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 522

Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys	Asp	Tyr	Gly	Ser	Gln	Glu	Asp
1				5				10					15		
Phe	Thr	Gln	Val												
			20												

<210> 523

<211> 254

<212> PRT

<213> Artificial Sequence

<220>
 <223> Made in a lab

<220>
 <221> VARIANT
 <222> (1)...(254)
 <223> Xaa = any amino acid

<400> 523

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5				10					15		
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
			20					25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
		35					40					45			
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50					55					60				
Trp	Val	Leu	Ser	Ala	Thr	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65					70				75					80	
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
			85					90						95	
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
		100					105						110		
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
	115					120					125				
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
130					135						140				
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145				150					155						160
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu
			165					170						175	
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
		180						185					190		
Ala	Gly	Gly	Gly	Gln	Xaa	Gln	Xaa	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
	195					200						205			
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
210					215						220				
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
225				230					235					240	
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
			245					250							

<210> 524
 <211> 765
 <212> DNA
 <213> Homo sapien

<400> 524

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tcgcagccct	ggcaggcggc	actgggtcatg	gaaaacgaat	tggtctgctc	gggcgtcctg	180
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ctctccgtac ggaccccaga gtacaacaga cccttgctcg ctaacgacct catgtcatc 360
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<210> 525

<211> 254

<212> PRT

<213> Homo sapien

<400> 525

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Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
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Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
          20          25          30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
          35          40          45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
          50          55          60
Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
          65          70          75          80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
          85          90          95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
          100          105          110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
          115          120          125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
          130          135          140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
          145          150          155          160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
          165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
          180          185          190
Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
          195          200          205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
          210          215          220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
          225          230          235          240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
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<210> 526

<211> 963

<212> DNA

<213> Homo sapiens

<400> 526

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<210> 527

<211> 320

<212> PRT

<213> Homo sapiens

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Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
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Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
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Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
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Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
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Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
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Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
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 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
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 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
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 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
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 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
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 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
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<210> 530
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<212> PRT

<213> Homo sapiens

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Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
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Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
      50                      55                      60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
      65                      70                      75                      80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
      85                      90                      95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
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Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
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Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
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Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
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Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
      165                     170                     175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
      180                     185                     190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
      195                     200                     205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
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Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
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Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
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Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
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Val Ile Ile Met
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 35 40 45
 Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His
 50 55 60
 Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
 65 70 75 80
 Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
 85 90 95
 Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn

100 105 110
 Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu
 115 120 125
 Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
 130 135 140
 Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
 145 150 155 160
 Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
 165 170 175
 Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
 180 185 190
 Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
 195 200 205
 Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
 210 215 220
 Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
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<213> Homo sapiens

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<221> misc_feature

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<223> n=A,T,C or G

<400> 536

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<400> 537

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Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu

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Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val Ile Gln Pro Ile Phe		
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Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser		
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Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr Val Leu Thr Phe Cys		
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Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln		
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Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg		
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Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly Lys Thr Thr Thr Gly		
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Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn Lys Phe Asp Gln Val		
	195	200
Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro Leu Gln Ala Ile Ala		
	210	215
Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile Ser Cys Leu Ala Gly		
	225	230
Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln Ser Cys Phe Gly Lys		
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Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr Phe Thr Asp Ala Arg		
	260	265
Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile Arg Ile Ile Lys Met		
	275	280
Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile Thr Asn Leu Arg Lys		
	290	295
Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys Leu Arg Gly Met Asn		
	305	310
Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile Val Phe Val Thr Phe		

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Thr Thr Tyr	Val Leu Leu Gly Ser	Val Ile Thr Ala Ser	Arg Val Phe		
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Val Ala Val	Thr Leu Tyr Gly	Ala Val Arg Leu Thr	Val Thr Leu Phe		
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Phe Pro Ser	Ala Ile Glu Arg	Val Ser Glu Ala	Ile Val Ser Ile Arg		
	370		375	380	
Arg Ile Gln	Thr Phe Leu Leu Leu Asp	Glu Ile Ser Gln Arg	Asn Arg		
385		390	395	400	
Gln Leu Pro	Ser Asp Gly Lys Lys Met	Val His Val Gln Asp	Phe Thr		
	405		410	415	
Ala Phe Trp	Asp Lys Ala Ser Glu Thr	Pro Thr Leu Gln Gly	Leu Ser		
	420		425	430	
Phe Thr Val	Arg Pro Gly Glu Leu Leu	Ala Val Val Gly	Pro Val Gly		
	435		440	445	
Ala Gly Lys	Ser Ser Leu Leu Ser	Ala Val Leu Gly	Glu Leu Ala Pro		
	450		455	460	
Ser His Gly	Leu Val Ser Val His Gly	Arg Ile Ala Tyr	Val Ser Gln		
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Gln Pro Trp	Val Phe Ser Gly Thr Leu	Arg Ser Asn Ile Leu	Phe Gly		
	485		490	495	
Lys Lys Tyr	Glu Lys Glu Arg Tyr Glu	Lys Val Ile Lys	Ala Cys Ala		
	500		505	510	
Leu Lys Lys	Asp Leu Gln Leu Leu Glu	Asp Gly Asp Leu Thr	Val Ile		
	515		520	525	
Gly Asp Arg	Gly Thr Thr Leu Ser	Gly Gly Gln Lys	Ala Arg Val Asn		
	530		535	540	
Leu Ala Arg	Ala Val Tyr Gln Asp	Ala Asp Ile Tyr Leu	Leu Asp Asp		
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Pro Leu Ser	Ala Val Asp Ala Glu	Val Ser Arg His Leu	Phe Glu Leu		
	565		570	575	
Cys Ile Cys	Gln Ile Leu His Glu	Lys Ile Thr Ile Leu	Val Thr His		
	580		585	590	
Gln Leu Gln	Tyr Leu Lys Ala Ala	Ser Gln Ile Leu Ile	Leu Lys Asp		
	595		600	605	
Gly Lys Met	Val Gln Lys Gly Thr	Tyr Thr Glu Phe Leu	Lys Ser Gly		

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Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu 645 650 655		
Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly 660 665 670		
Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu 675 680 685		
Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr 690 695 700		
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Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val Thr Val Asn Gly Gly 740 745 750		
Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp Tyr Leu Gly Ile Tyr 755 760 765		
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Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln Thr Leu His Asn Lys 785 790 795 800		
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Gln Val Val Gly Val Val Ser Val Ala Val Ala Val Ile Pro Trp Ile 850 855 860		
Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe Ile Phe Leu Arg Arg 865 870 875 880		
Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg Leu Glu Ser Thr Thr 885 890 895		
Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser Leu Gln Gly Leu Trp		

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Ala His Gln Asp Leu His Ser	Glu Ala Trp Phe Leu Phe Leu Thr Thr	
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Ser Arg Trp Phe Ala Val Arg	Leu Asp Ala Ile Cys Ala Met Phe Val	
945	950	955
Ile Ile Val Ala Phe Gly Ser	Leu Ile Leu Ala Lys Thr Leu Asp Ala	
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Gly Gln Val Gly Leu Ala Leu	Ser Tyr Ala Leu Thr Leu Met Gly Met	
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Phe Gln Trp Cys Val Arg Gln	Ser Ala Glu Val Glu Asn Met Met Ile	
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Ser Val Glu Arg Val Ile Glu	Tyr Thr Asp Leu Glu Lys Glu Ala Pro	
1010	1015	1020
Trp Glu Tyr Gln Lys Arg Pro	Pro Pro Ala Trp Pro His Glu Gly Val	
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Ile Ile Phe Asp Asn Val Asn	Phe Met Tyr Ser Pro Gly Gly Pro Leu	
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Val Leu Lys His Leu Thr Ala	Leu Ile Lys Ser Gln Glu Lys Val Gly	
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Ile Val Gly Arg Thr Gly Ala	Gly Lys Ser Ser Leu Ile Ser Ala Leu	
1075	1080	1085
Phe Arg Leu Ser Glu Pro Glu	Gly Lys Ile Trp Ile Asp Lys Ile Leu	
1090	1095	1100
Thr Thr Glu Ile Gly Leu His	Asp Leu Arg Lys Lys Met Ser Ile Ile	
1105	1110	1115
Pro Gln Glu Pro Val Leu Phe	Thr Gly Thr Met Arg Lys Asn Leu Asp	
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Pro Phe Asn Glu His Thr Asp	Glu Glu Leu Trp Asn Ala Leu Gln Glu	
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Val Gln Leu Lys Glu Thr Ile	Glu Asp Leu Pro Gly Lys Met Asp Thr	
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Glu Leu Ala Glu Ser Gly Ser	Asn Phe Ser Val Gly Gln Arg Gln Leu	
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Val Cys Leu Ala Arg Ala Ile	Leu Arg Lys Asn Gln Ile Leu Ile Ile	

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 Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val
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 Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
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 Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
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 Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
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 His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
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 Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro
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 Leu Arg Gly Met Asn Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile
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 305 310 315 320
 Thr Val Thr Leu Phe Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala
 325 330 335
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Val Ile Pro Trp	Ile Ala Ile Pro Leu	Val Pro Leu Gly	Ile Ile Phe			
	820	825	830			
Ile Phe Leu Arg	Arg Tyr Phe Leu Glu	Thr Ser Arg Asp	Val Lys Arg			
	835	840	845			
Leu Glu Ser Thr	Thr Arg Ser Pro Val	Phe Ser His Leu	Ser Ser Ser			
	850	855	860			
Leu Gln Gly Leu	Trp Thr Ile Arg Ala	Tyr Lys Ala Glu	Glu Arg Cys			
865	870	875	880			
Gln Glu Leu Phe	Asp Ala His Gln Asp	Leu His Ser Glu	Ala Trp Phe			
	885	890	895			
Leu Phe Leu Thr	Thr Ser Arg Trp Phe	Ala Val Arg Leu	Asp Ala Ile			
	900	905	910			
Cys Ala Met Phe	Val Ile Ile Val Ala	Phe Gly Ser Leu	Ile Leu Ala			
	915	920	925			
Lys Thr Leu Asp	Ala Gly Gln Val Gly	Leu Ala Leu Ser	Tyr Ala Leu			
	930	935	940			
Thr Leu Met Gly	Met Phe Gln Trp Cys	Val Arg Gln Ser	Ala Glu Val			
945	950	955	960			
Glu Asn Met Met	Ile Ser Val Glu Arg	Val Ile Glu Tyr	Thr Asp Leu			
	965	970	975			
Glu Lys Glu Ala	Pro Trp Glu Tyr Gln	Lys Arg Pro Pro	Pro Ala Trp			
	980	985	990			
Pro His Glu Gly	Val Ile Ile Phe Asp	Asn Val Asn Phe	Met Tyr Ser			
	995	1000	1005			
Pro Gly Gly Pro	Leu Val Leu Lys His	Leu Thr Ala Leu	Ile Lys Ser			
	1010	1015	1020			
Gln Glu Lys Val	Gly Ile Val Gly Arg	Thr Gly Ala Gly	Lys Ser Ser			
1025	1030	1035	1040			
Leu Ile Ser Ala	Leu Phe Arg Leu Ser	Glu Pro Glu Gly	Lys Ile Trp			
	1045	1050	1055			
Ile Asp Lys Ile	Leu Thr Thr Glu Ile	Gly Leu His Asp	Leu Arg Lys			
	1060	1065	1070			
Lys Met Ser Ile	Ile Pro Gln Glu Pro	Val Leu Phe Thr	Gly Thr Met			

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Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp 1090	1095	1100
Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro 1105	1110	1115 1120
Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val 1125	1130	1135
Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn 1140	1145	1150
Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr 1155	1160	1165
Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr 1170	1175	1180
Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys 1185	1190	1195 1200
Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr 1205	1210	1215
Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln 1220	1225	1230
Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg 1235	1240	1245
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<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 539

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<210> 540

<211> 9

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<213> Artificial Sequence

<220>

<223> Made in a lab

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Ala Val Val Thr Ala Ser Ala Ala Leu
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<210> 541

<211> 14

<212> PRT

<213> Homo sapiens

<400> 541

Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
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<210> 542

<211> 15

<212> PRT

<213> Homo sapiens

<400> 542

Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala
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<210> 543

<211> 12

<212> PRT

<213> Homo sapiens

<400> 543

Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val
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<210> 544

<211> 18

<212> PRT

<213> Homo sapiens

<400> 544

Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe
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Met Thr

<210> 545

<211> 18

<212> PRT

<213> Homo sapiens

<400> 545

Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
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Ser Val

<210> 546
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 546
 Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly
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Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met
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<210> 547
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 547
 Val Ala Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu
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Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu
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Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys
 35 40 45

Cys Arg Met Pro Arg Thr Leu Arg Arg Leu
 50 55

<210> 548
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<400> 548
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Glu Cys

<210> 549
 <211> 18

<212> PRT

<213> Homo sapiens

<400> 549

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Gln Ala

<210> 550

<211> 14

<212> PRT

<213> Homo sapiens

<400> 550

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<210> 551

<211> 11

<212> PRT

<213> Artificial Sequence

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<223> Made in a lab

<400> 551

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<210> 552

<211> 2577

<212> DNA

<213> Homo sapiens

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<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

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Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys
          5                      10                      15

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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
          20                      25                      30

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Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
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Glu Pro His His Thr Gly Gly Gly Glu His
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<210> 554

<211> 59

<212> PRT

<213> Homo sapiens

<400> 554

Leu Gln Lys Asn Lys Leu Arg Ala Ser Thr Asp Ser Thr Leu Trp Ile
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 Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val
 20 25 30
 Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro
 35 40 45
 Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu
 50 55

<210> 555

<211> 71

<212> PRT

<213> Homo sapiens

<400> 555

Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln
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 Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser
 20 25 30
 Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp
 35 40 45
 Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro
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 Ser Asp Pro Leu Glu Leu Leu
 65 70

<210> 556

<211> 81

<212> PRT

<213> Homo sapiens

<400> 556

Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr
 5 10 15
 Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
 20 25 30
 Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly
 35 40 45
 Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
 50 55 60
 Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg

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65                               70                               75                               80
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<210> 557
<211> 54
<212> PRT
<213> Homo sapiens

<400> 557
Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu
              5                                10                    15

Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu
          20                                25                    30

Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys
      35                                40                    45

Gly Phe His Ile Arg Phe
    50

<210> 558
<211> 77
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)...(77)
<223> Xaa = Any amino acid

<400> 558
Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu
              5                                10                    15

Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
          20                                25                    30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
      35                                40                    45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
    50                                55                    60

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
    65                                70                    75

<210> 559
<211> 50
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<213> Homo sapiens

Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser
5 10 15

Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala
35 40 45

<210> 560

<212> PRT

<213> Homo sapiens

Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly
5 10 15

Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn
35 40 45

<210> 561

<211> 57

<212> PRT

<213> Homo sapiens

<221> VARIANT

<222> (1) ... (57)

<223> Xaa = Any amino acid

Val Leu His Leu Asp Gln Met Asn Asn Val Gly Ile Xaa Met Asp Lys
5 10 15

Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn

35 40 45
 Ser Leu Pro Arg Glu Asn Tyr Leu Asn
 50 55

<210> 562
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(59)
 <223> Xaa = Any amino acid

<400> 562
 Asp Leu Tyr Pro Xaa Arg Ser Gln His Cys Ser Phe Asp Pro Ser Val
 5 10 15
 Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu
 20 25 30
 Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val
 35 40 45
 Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro
 50 55

<210> 563
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 563
 Cys Phe Leu Phe Pro Tyr Leu Trp Leu Tyr Ala Gln Pro Leu Phe Pro
 5 10 15
 Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His
 20 25 30
 Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met
 35 40 45
 Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg
 50 55 60
 Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg
 65 70 75

<210> 564
 <211> 64

<212> PRT

<213> Homo sapiens

<400> 564

Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala
5 10 15

Glu Arg Asp Gln Cys Leu Phe Leu Leu Cys Tyr Gln Ile Tyr Thr
20 25 30

Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser
35 40 45

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
50 55 60

<210> 565

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(57)

<223> Xaa = Any amino acid

<400> 565

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5 10 15

Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
20 25 30

Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
35 40 45

Tyr Ala Val Ser Ser Xaa His Asn Val
50 55

<210> 566

<211> 55

<212> PRT

<213> Homo sapiens

<400> 566

Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg
5 10 15

Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His
20 25 30

Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro

35 40 45
 Leu Lys Leu Val Leu Leu Pro
 50 55

 <210> 567
 <211> 51
 <212> PRT
 <213> Homo sapiens

 <400> 567
 Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu
 5 10 15

 Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
 20 25 30

 Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile
 35 40 45

 Phe Arg Thr
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 <210> 568
 <211> 75
 <212> PRT
 <213> Homo sapiens

 <400> 568
 Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile
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 Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu
 20 25 30

 Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
 35 40 45

 Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
 50 55 60

 Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
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 <210> 569
 <211> 4809
 <212> DNA
 <213> Homo sapiens

 <400> 569

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 gggcaaatta gagccttcca tattgccaaag gtgtatcaac cacactgata ycaygatctc 3660
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 cctataatgg ggatctttca ctcaccctaa agtgaggaca aaatacttga aagcatgagc 3900
 ccagtgcctg taggtgtgca attaacctca gaccaaggaa gtgccgaacg catctggctt 3960
 ttagcaaggc acctgacaaa gtccttcagg atgtttttgt acatgagcta gagaaatgta 4020
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 ttcagaactg gaaaaatgct ttaaatttgg ctttgtcatg attattaaaa cactctgtac 4740
 attttttatt attgaaatta acacattgcc tactttttta aaattggaaa aagaaaaaaa 4800
 aaaaaaaaaa 4809

<210> 570

<211> 951

<212> DNA

<213> Homo sapiens

<400> 570

aaaattgaat attgagatac cattcttttag tgttacottt tttaccacac tgtgtttctg 60
 aaaatatttg aattttattc atcttaaaaa ttggaccogg ccttatttac catctttaat 120
 ccattttagt actatgggtg agtacatgga attgaagtct ggcttaaata ttcagaaagt 180
 tatatatcta ttttatttta tttttttgag acagagtctc gctgtgtcac ccaggctgga 240
 gtgcgggtgcc acaatcttgg ctcaactgcaa cctctgagtc ccaggttcaa gcgatactca 300
 tgccctggcc tcctgagtag ctgggactac aggcgtgcac caccacatct ggctaactct 360
 tttttgtatt tttagtagag acggggtttc actgtggtct ccactctctg acctcgtgat 420
 ccgcctgcct cccaaagtgc tgggattaca ggcattgagcc accgcacaca gctgggactg 480
 ggtaatttat aaagaaaaga ggtttaatga ctcacagttc cgcatggctg gagaggcctc 540
 aggaaactta caatcatggt ggaaggcgaa ggggaagcaa ggcacgtctt acatgggtgg 600
 aggagagaac gagtgagggg ggagactgcc acaaactttt tttttttgag acaagagtct 660
 ggccctgttg ccaggctgg agtgacgtgg catgatctca gctcactgca acctctgcct 720
 cacaggttca agcaattctc atgcctcagc ctcccgcata gctgggacca caggatgca 780
 ccaccacacc tagctaattt ttgtagtttt agtagagatg gggctctact atgttgctca 840
 ggctgggtcta aaactcctgg gctccagcaa tccgcctgcc ttggcctccc aaagtgtgg 900
 ggttacaggc ataagccacc acatccagcc tgccacatac ttttaaacta t 951

<210> 571

<211> 819

<212> DNA

<213> Homo sapiens

<400> 571

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cagcttaaaa atggttttctt gaaatcagtg attagcattc actcaccagt acccctacta 60
aggggtaggc actggtttgt actcctggga atacaggagt acaccagaat ttattttctgc 120
ttattgcttt tgttgcaaat gccgtggctt catctgagga attctagaat tcagagggtg 180
tagccctcca ctctgctgtc ttgctatctg ctctcattgc atccgtttta cctgcattct 240
gaaagatggt tctcagggtt ttccttgacg attttcttct tttctgattc tgacaatgtt 300
ttaaatcatt gtactgtggg tatcatttct ctgcatttat tttacccatc ttcctttgta 360
acttgtccta ttgtctttta atttctgcct gttctttatg gctttcaact tcataaataa 420
catgttttct caaatctctt tgtgaattcc agagagggcc aggcacgggtg gctcacatct 480
gtaatcccag cactttgggg aggctgagac ggggtgatca cttgagggtc ggagtttgag 540
accagcctgg ccaacatggt gaaatcccgt ttcactaaaa atacaaaaat taccaggca 600
tgggtggcggg cgcctgtaat ccaggtact cgggaggctg agggaggaga atcgcttgaa 660
cctgggaggc tgaggaggga gaatcgcttg aaccggggag gcagagggtg cagtgaaccg 720
agatcatgtt gctgcactcc agcctgggtc acagagcaag actctgcctc aaaaacaaac 780
aaataaacia acaaaciaac aaaacagaga gattttgct 819

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<210> 572

<211> 203

<212> DNA

<213> Homo sapiens

<400> 572

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tatagaatac tcaagctatg catcaagctt ggtaccgagc tcggatccac tatTTaaggc 60
cgccagtgtg ctggaattcg cccttagctc ggatccacta gtccagtgtg gtggaattcc 120
attgtgttgg gcccaacaca atggagccac cacatccagc ctgccacata cttttaaact 180
atcaggtctc atgagaactc atg 203

```

<210> 573

<211> 132

<212> PRT

<213> Homo sapiens

<400> 573

```

Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
          5              10              15

```

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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
          20              25              30

```

```

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
          35              40              45

```

```

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
          50              55              60

```

```

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
          65              70              75              80

```

```

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
          85              90              95

```

```

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro

```

100 105 110
 Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
 115 120 125
 Leu Leu Asn Tyr
 130

<210> 574
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 574
 Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
 5 10 15
 His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
 20 25 30
 Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
 35 40 45
 Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
 50 55 60

<210> 575
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 575
 Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
 5 10 15
 Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
 20 25 30
 Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
 35 40 45
 Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
 50 55 60
 Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
 65 70 75

<210> 576
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(68)

<223> Xaa = Any Amino Acid

<400> 576

Met Leu Gly Lys Ser Arg Ala Val Cys Leu Pro Ser Thr Thr Val Thr
 5 10 15

Thr Val Cys Tyr Leu Ala Ser Ser Ser Ala Ser Arg Glu Thr Ala Thr
 20 25 30

Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln
 35 40 45

Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn
 50 55 60

Pro Gly Tyr Ser
 65

<210> 577

<211> 57

<212> PRT

<213> Homo sapiens

<400> 577

Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg
 5 10 15

Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro
 20 25 30

Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe
 35 40 45

Arg Leu Ala Pro Pro Ala Asp Thr Pro
 50 55

<210> 578

<211> 51

<212> PRT

<213> Homo sapiens

<400> 578

Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His
 5 10 15

His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr
 20 25 30

Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr
 35 40 45

Gln Pro His
 50

<210> 579
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 579
 Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
 5 10 15

Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
 20 25 30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
 35 40 45

Ile Ala Lys Val Tyr Gln Pro His
 50 55

<210> 580
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 580
 Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
 5 10 15

Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
 20 25 30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
 35 40 45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
 50 55 60

Phe Ile His
 65

<210> 581
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 581


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<210> 582
<211> 51
<212> PRT
<213> Homo sapiens
```

```
<210> 583
<211> 60
<212> PRT
<213> Homo sapiens
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```

<400> 583
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
          5                      10                      15

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
          20                      25                      30

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
          35                      40                      45

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
          50                      55                      60

```

<210> 584
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 584
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 585
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 585
 Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
 5 10 15
 Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
 20 25 30
 Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
 35 40 45
 Leu Phe
 50

<210> 586
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 586
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser

35

40

45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 587

<211> 1408

<212> DNA

<213> Homo sapiens

<400> 587

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ctggacactt tgcgagggct tttgctggct gctgctgctg cccgtcatgc tactcatcgt 60
agcccgcccg gtgaagctcg ctgctttccc tacctcctta agtgactgcc aaacgcccac 120
cggctggaat tgctctggtt atgatgacag agaaaatgat ctcttcctct gtgacaccaa 180
cacctgtaaa tttgatgggg aatgtttaag aattggagac actgtgactt gcgtctgtca 240
gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa 300
tgagtgttac ctgcgacagg ctgcatgcaa acagcagagt gagatacttg tgggtgcaga 360
aggatcatgt gccacagatg caggatcagg atctggagat ggagtccatg aaggctctgg 420
agaaactagt caaaaggaga catccacctg tgatatttgc cagtttggtg cagaatgtga 480
cgaagatgcc gaggatgtct ggtgtgtgtg taatattgac tgttctcaaa ccaacttcaa 540
tccctctgct gcttctgatg ggaaatctta tgataatgca tgccaaatca aagaagcatc 600
gtgtcagaaa caggagaaaa ttgaagtcac gtctttgggt cgatgtcaag ataacacaac 660
tacaactact aagtctgaag atgggcatta tgcaagaaca gattatgcag agaatgctaa 720
caaattagaa gaaagtgccg gagaacacca cataccttgt ccggaacatt acaatggctt 780
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cggtcctgta cgatttcagt atgtcttaac cgcagctgtg attggaacaa ttcagattgc 960
tgtcatctgt gtggtggtcc tctgcatcac aaggaaatgc ccagaagca acagaattca 1020
cagacagaag caaaatacag ggcactacag ttcagacaat acaacaagag cgtccacgag 1080
gttaatctaa agggagcatg tttcacagtg gctggactac cgagagcttg gactacacaa 1140
tacagtatta tagacaaaag aataagacaa gagatctaca catgttgctt tgcatttgtg 1200
gtaatctaca ccaatgaaaa catgtactac agctatattt gattatgtat ggatatattt 1260
gaaatagtat acattgtctt gatgtttttt ctgtaatgta aataaactat ttatatcaca 1320
caatawagtt ttttctttcc catgtatttg ttatatataa taaataactca gtgatgagaa 1380
aaaaaaaaa aaaaaaaaaa rwmgaccc 1408

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<210> 588

<211> 81

<212> PRT

<213> Homo sapiens

<400> 588

Met Pro Gln Lys Gln Gln Asn Ser Gln Thr Glu Ala Lys Tyr Arg Ala
 5 10 15

Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys
 20 25 30

Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln
 35 40 45

Tyr Ser Ile Ile Asp Lys Arg Ile Arg Gln Glu Ile Tyr Thr Cys Cys
 50 55 60

Leu Ala Phe Val Val Ile Tyr Thr Asn Glu Asn Met Tyr Tyr Ser Tyr
 65 70 75 80

Ile

<210> 589
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 589
 Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
 5 10 15

Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
 20 25 30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
 35 40 45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
 50 55 60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
 65 70 75 80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
 85 90 95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
 100 105 110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
 115 120 125

Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
 130 135 140

Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
 145 150 155

<210> 590
 <211> 347
 <212> PRT
 <213> Homo sapiens

<400> 590
 Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr
 5 10 15

Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr
 20 25 30
 Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys
 35 40 45
 Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys
 50 55 60
 Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly
 65 70 75 80
 Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln
 85 90 95
 Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala
 100 105 110
 Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser
 115 120 125
 Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys
 130 135 140
 Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser
 145 150 155 160
 Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp
 165 170 175
 Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile
 180 185 190
 Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr
 195 200 205
 Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala
 210 215 220
 Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys Pro Glu
 225 230 235 240
 His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser Ile Asn
 245 250 255
 Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His
 260 265 270
 Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val
 275 280 285
 Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile
 290 295 300

Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
340 345

<210> 591
<211> 565
<212> DNA
<213> Homo sapien

<400> 591
actaaagcaa atgaacaagc tgacttgcta gtatcatctg cattcattga agcacaagaa 60
cttcatgcct tgactcatgt aaatgcaata ggattaaaaa ataaatttga tatcacatgg 120
aaacagacaa aaaatattgt acaacattgc acccagtgtc agattctaca cctggccact 180
caggaagcaa gagttaatcc cagaggtcta tgcctaatag tggttatggca aatggatgtc 240
atgcacgtac cttcatttgg aaaattgtca tttgtccatg tgacagttga tacttattca 300
catttcatat gggcaacctg ccagacagga gaaagtactt cccatgttaa aagacattta 360
ttatcttggt ttctgtgcat gggagttcca gaaaaagtta aaacagacaa tgggccaggt 420
tactgtagta aagcatttca aaaattctta aatcagtggg aaattacaca tacaatagga 480
attctctata attcccaagg acaggccata attgaaggaa qtaatagaac actcaaagct 540
caattgggta aacaaaaaaaa aaaaa 565

<210> 592
<211> 188
<212> PRT
<213> Homo sapien

<400> 592
Thr Lys Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Ile
1 5 10 15
Glu Ala Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu
20 25 30
Lys Asn Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln
35 40 45
His Cys Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg
50 55 60
Val Asn Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val
65 70 75 80
Met His Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val
85 90 95
Asp Thr Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser
100 105 110
Thr Ser His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly
115 120 125
Val Pro Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys
130 135 140
Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly
145 150 155 160

Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg
 165 170 175
 Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys
 180 185

<210> 593
 <211> 271
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(271)
 <223> n = A,T,C or G

<400> 593
 actttatggt cnagtgcana aancncctg gattgccacc ntactctcag ggctgtgant 60
 tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggt 120
 gtccttagct ggggtctata catgncnggg naagggcngc tgagtnccat nagcaaagga 180
 nctagnatnt gcgggggtgc ggcctgggcc taccctttna agcatccntn gatccactcc 240
 angaancng gggtagncag gtttnccaac a 271

<210> 594
 <211> 376
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(376)
 <223> n = A,T,C or G

<400> 594
 cctttggggg nggggggaac ctttaccatt gtnccctttt atttcatttg gttnggggttc 60
 gcgcctcenn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc 120
 cgattaagcg ncaaatgtgt agcaaaangc cgtgccactt gtggcgtagc tncgtcgggt 180
 cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccn gtggcatgag 240
 cccacgangg nttcgtgtcg tcacatggnc tctagacata acgcnncn ttttttncag 300
 agggggntgc cgcccttagg gaggnagggg tggggacact agccaancca nantctnacc 360
 ccattgaaga aaaggn 376

<210> 595
 <211> 242
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(242)
 <223> n = A,T,C or G

<400> 595
 agnctgctgn tcgtnccctn tatgtggctt catnntgagg acaanagtng cactgaggct 60
 tgngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaanggggt 120

```

atgccangag cangtgcacc agtcccaact angagnccn ggcatgntac atcttcttcc 180
accctnaaa ntttnggcta caangnccat ttttctttt ctottaaggg ncncttggt 240
tc 242

```

```

<210> 596
<211> 535
<212> DNA
<213> Homo sapien

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```

<220>
<221> misc_feature
<222> (1)...(535)
<223> n = A,T,C or G

```

```

<400> 596
accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatttt 60
gaaagctttt taaatttttt cttaagaag atttttagatg cttatcaactg agtaccagag 120
ggatgtaggc tgaatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta 180
ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctggtg 240
gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac 300
tcctggtgct gaccaggggt cctggaggaa gggatgaggt gggcagtaga gatgctcagg 360
gcagtggccc ctttccatcc aacttggaac tatttcagta ttttaccacc aattcagcca 420
ttcccttggt cgctggctga acatcagccc tgctccaggt ctccagtttc cctttgtaaa 480
gggaaagctc tggattcagg gagtgatgaa gaggtcatca tgggtcttgag aattc 535

```

```

<210> 597
<211> 257
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

```

```

<400> 597
tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat 60
tntntaactt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn 120
attnctctta agatnngatn agaccccggt tttcacggaa catatccaag nacccaatag 180
gnaacaagcc acgggnggag tcacaaacat atattcttta ctctcataat ccgtnnccaa 240
naactnttgn acttgac 257

```

```

<210> 598
<211> 222
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(222)
<223> n = A,T,C or G

```

```

<400> 598
nntggntacc gtcnaaactt nnccttggtac ccgagctcgg atccactagt ccagtgtggt 60

```



```

ggaattccat tgtgttgggc tataagctgt aatagtggag ncgtgctngg ttcattgcan 120
nagnccctcc gcanncacnc ttggnacaac ctgtgagnag gcnataaatt attcacataa 180
tcatcactgc atgaanctga ctcaaacgca tccacntaca cc 222

```

```

<210> 599
<211> 238
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(238)
<223> n = A,T,C or G

```

```

<400> 599
gcatgacatc ancgatgtnt ttggnnacct ganattngct aaaactngng natgccgggn 60
atgnaggttt ggtantgata tatgcactca catctcatgg ggacgtttca tgtggagtgn 120
tcgacaangt tgctgnanncn gagaagtgat gatctcagtt gaaaggggtca tgtgaataca 180
cnttacactt gaaaaagaag cacattggga atatcacgaa acgnccacca acatcctg 238

```

```

<210> 600
<211> 232
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 600
cgaactattht agactaccta ggaaaattat tttagtatca gaagaatata aggggtgtag 60
tactcatcag agctaaatga gagcgcttta aaaatgttag tttgtcttcc gccatttcta 120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaagc 180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

```

```

<210> 601
<211> 547
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(547)
<223> n = A,T,C or G

```

```

<400> 601
cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgoga ttgctttttt 60
ttttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
ctnatattct totgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
catgtaatcc gcggagttag taactcaaaa cgagtgcata tnggaagtat cgcagccgtt 300
nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct 360
gcagcccngg ggnaaaaacc ttgcgattgt tcttacgtgt ttacgttatt ttatttcctt 420

```

nnagcaaggc nggganttgg ggactcgaaa tgggtacagtt gggctgggga tcgcccttgt 480
 tacataaaaag ncgtccagaa gagggacggt tacaggcngg ganctccaaa ggtcagtcgcc 540
 tgccatt 547

<210> 602
 <211> 826
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(826)
 <223> n = A,T,C or G

<400> 602
 cgggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
 taccattcga gtcctactc ctgccttgct ctagggaat aaaataacgt aaacacgtaa 120
 gaacaatgcg aaagcggttt ctccctagg ctgcagattg tcttcttcac cggccctgct 180
 tagctagcta gctagctggg aatttaaatcc agaaacggct tgcgatacct cctagatgca 240
 ctcgttttga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300
 tagggaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna 360
 atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
 caggttttca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480
 gctttttacaa atcatttttc tcttctagggt atagcctgtc aggtggccta atgtattttt 540
 gacatctcta ggaattttta tagaccagaa atgggtgcca gagatatgcc tgcactaatc 600
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaaactag gcacgaatga 660
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
 cttctcttct taaaatngaa aaaaaaattg tttaaacca naaggtctga ataccaagc 780
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 603
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

<400> 603
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
 gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgctctc 420
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480
 gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaacgag 540
 tgcacttagg aggtatcgca agccgtttct ggattaaatt cccagctage ttgcttgctt 600
 agcagggggc ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660
 tacgtgttta cgttattttta tttcctanaa caaggcngaa ttgggactcg aatggttcag 720
 ttgggggtggg ggatcccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780

agggtcgtcc tgcatttana ctcggaattt tgggtgcc

817

<210> 604
 <211> 694
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n = A,T,C or G

<400> 604
 cttttcaaat cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60
 gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120
 cttaagtggg gatttatgta tttctcaagc aagtgattaa agcaaaacta ggcacgattg 180
 aaatcaagat cttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240
 tggctttctc ttcataaaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300
 agccaaagca acactganca aaaagaacan agcagggaag caacacacta ccngaattca 360
 aattatacta ccagggtgta gtaacccaaa cagcattcta ttggcataaa atagacacca 420
 agaccaatgg ancagaataa agaacccac aaataaatcc atatatntac cgccanctga 480
 ttatcaataa cnaacaccaa gaacatatnt taagggacnt nctattcaat aantagtgtc 540
 ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agaccctat ccctcaccat 600
 acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660
 atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 605
 <211> 678
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n = A,T,C or G

<400> 605
 taaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
 actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccattttctac 120
 agaaagctgc aatttcaggt tttcaaccta atagggtgata tttaagaaaa aaaaaaagca 180
 atcgcaaata gccccactgc ttttacaat cattttttct cttctaggta tagcctgtca 240
 ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
 agagatatgc ctgcactaat cttaagtggg gatttatgta tttctcaagc aagtgattaa 360
 agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
 anaattattt taggactctg tggctttctc ttcataaaaa tagaaaaaaa aaattgtata 480
 aaaaccacaa aaggtcctga atagcccaa gcaacactga acaaaaangaa caaagcagga 540
 agcaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagcattct 600
 attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaaataaat 660
 cctatattta cngccnc 678

<210> 606
 <211> 263
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(263)
 <223> n = A,T,C or G

<400> 606
 gtggggtcng cancagccaa ctcagcttcc tttcgggctt tgtagcaga cggatcatcc 60
 tctagtccac tgtgntcaaa ttccattgtg tgggggccnc tcgcctcggc canagatctg 120
 agtgancana cntgtcccca ctgaggtgcc ccacagcngn ttgtnttcag canggggctna 180
 caactcgacc ggcagcgnan ggctggcaga antgngcgcc tnnctcattc ctacgcngtn 240
 ngccgcagga aggangacag gcc 263

<210> 607
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 607
 ccatgtgggt cccggttgct tt 22

<210> 608
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 608
 gataggggtg ctcaggggtt gg 22

<210> 609
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 609
 gctggacagg gggcaaaagc tggggcagtg aaccatgtgc 40

<210> 610
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 610
 cctgtgccag atagcccagt agctgac 27

<210> 611
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 611
 gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc 46

<210> 612
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 612
 gcacatgggt cactgcccc gcttttgccc cctgtccagc 40

<210> 613
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 613
 gccgctcgag ttagaattcg gggttggcca cgatgggtg 38

<210> 614
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 614
 cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca 53

<210> 615
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 615
gcactcccag cctcccacaa tactggcctg gacgggttttc tctatc

46

<210> 616
<211> 1350
<212> DNA
<213> Homo sapien

<400> 616
atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccga ctgcagccc 60
tggcaggcgg cactggtcat ggaaaacgaa ttgttctgct cgggcgtcct ggtgcatcgg 120
cagtgggtgc tgtcagccgc acactgtttc cagaactcct acaccatcgg gctgggcctg 180
cacagtcttg aggcgacca agagccaggg agccagatgg tggaggccag cctctccgta 240
cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac 300
gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360
gcggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420
gtgctgcagt gcgtgaacgt gtcggtggtg tctgaggagg tctgcagtaa gctctatgac 480
ccgctgtacc accccagcat gttctgcgcc ggcggaggggc aagaccagaa ggactcctgc 540
aacggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600
ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtc acaccaacct ctgcaaattc 660
actgagtgga tagagaaaac cgtccaggcc agtattgtgg gaggtgagg gtgcgagaag 720
cattcccaac cctggcaggt gctgtggcc tctcgtggca gggcagctctg cggcgggtgtt 780
ctggtgcacc cccagtgggt cctcacagct gccactgca tcaggaacaa aagcgtgatc 840
ttgctgggtc ggcacagcct gtttcatcct gaagacacag gccagggtatt tcaggtcagc 900
cacagcttcc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca 960
ggtgatgact ccagccacga cctcatgctg ctccgcctgt cagagcctgc cgagctcacg 1020
gatgctgtga aggtcatgga cctgccacc caggagccag cactggggac cacctgctac 1080
gcctcaggct ggggcagcat tgaaccagag gacttcttga ccccaaagaa acttcagtgt 1140
gtggacctcc atgttatttc caatgacgtg tgtgcgcaag ttcacctca gaaggtgacc 1200
aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaacctgt 1260
gccctgcccg aaaggccttc cctgtacacc aagtggtgac attaccggaa gtggatcaag 1320
gacaccatcg tggccaaccc cgaattctaa 1350

<210> 617
<211> 449
<212> PRT
<213> Homo sapien

<400> 617
Met His His His His His His Ile Ile Asn Gly Glu Asp Cys Ser Pro
1 5 10 15
His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe
20 25 30
Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His
35 40 45
Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu
50 55 60
Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val
65 70 75 80
Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu
85 90 95
Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile
100 105 110

<400> 618
 ctgtgctgag aacccaaaagc tatgancact gcttttccaa atgtccataa naccaacatt 60
 tttatcacta ccaccatcac ctgggagctc nttagaaagc tagtctcccg ggcaccaccc 120
 tggcctactg aacctaatgt gcattttaaca agattnacgt ngaaatctgc aaagcacagg 180
 ggcngataac agtaccacct gntctggttc ctanccccan gacccttaca gtctaactgg 240
 gacacaaggg cttnaaatca aattgcctat cattaagata tacaanganc ntgagaaact 300
 gctncactta tntattaagg ngctctaaga cttagaaacn aaangcantg ctgagangat 360
 tcaaatatga ngggggncac tttnc 385

<210> 619

<211> 869

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(869)

<223> n = A,T,C or G

<400> 619
 gatatcccgg gaattcgcgg ccgcgtcgac ctctacttgt ttagacataa atgcagtcta 60
 gcattaaaga tccttttaaaa aaatgttttc ccaatggtta aaagacaagc tcaaataaat 120
 gaactctcat acatatgcc aatttgatga gtagataaat atttcagtag gtagttacta 180
 gctttctgtg tatgagtaaa catatgggag aaatttaaaa cactaaagta gactcaatga 240
 aagcatagta tcctatgtat tcgtttttca gaaatgtcta atgaaggaag gaaacaatga 300
 atgaatgcc ttattcctct tagagtgtg ggacatggt ttgcctgaaa acttcatgtg 360
 aattttatat tttgctacac attacacca tcttagactt atacgtataa gacataaggc 420
 atatcttatg tcttacatgt ataataatct aagcagaaca aaaaataacg aaatattttc 480
 ttccccaaat ttttgagaca gatggatttt ccggaaaagat gtgttttagct tttaatcctg 540
 tgggtttgtg taccacctgg cacactagag tgttgctcta attcagtgag ttgtaactct 600
 ggggtgaacag tggaaatact agggtagatt ttaaaaatgc taatgctcgg gcctcgctga 660
 agaccaaatt aattggaatc tctgngggng gnattgatct ttttataatc tttctanang 720
 attctaattg gcttcaggag atgaaaaccn ctgntggagc tnggaacctt ccttttagttt 780
 ggagaaaacc cgatgagggt ntnttaggcn ccgcctnttt ttggcctggg cttccccctt 840
 tatnntnttt tggaanggnc cnaattttt 869

<210> 620

<211> 339

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(339)

<223> n = A,T,C or G

<400> 620
 gngcgggctt cnccggtgctt gctctcgtcg ccgacgctct ttttccacca gctgtaggan 60
 aagcccgaag accactggct ccccgggtag cccaagtacc actggtcctc ctggctcctg 120
 acgctnccgg tcttcctcgt ggcgtagact gccagcttcg gagaccctc agccctccc 180
 cgctttttct caccacagga ggccatcagt agcgagctac tgcctcggcc acaacctccc 240
 agcangatag cccgcggttt ccaatctcgc aaaggaggac cgccnagccc gaaatgccna 300
 gccagcna cactgccacg ccgagccnag cgctcgtgc 339


```
<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G
```

```
<210> 622
<211> 847
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(847)  
<223> n = A,T,C or G
```

<400>	622								
cttangntgt	cgactgacgt	catgcgatgan	ttaaagcaga	ggtttggtga	aatttatgaa				60
aaatacaaaa	ttccggcttg	tcctgaggaa	gagccactac	ttgataactc	tacaagagga				120
acagatgtga	aggatatcc	ctttaatttg	acaaataaca	tacctggttg	tgaggaagaa				180
gatgcattctg	aaatatctgt	ctcagtggta	ttcgagacat	ttcctgaaca	aaaagaacc				240
agtctcaaaa	atatcatcca	tcatactat	catccgtact	ctgggtccca	ggaacatgtt				300
tgccagtcatt	cttctaagct	tcattttacat	gaaaataaat	tagactgcga	caatgataac				360
aaactaggca	ttggacatat	tttttagtaca	gataacaact	ttcataatga	tgcaagcact				420
aagaaagcaa	ggaaccgaga	agtggttacg	gttgaaatga	aagaagacca	agagtttgat				480
ttgcaaataga	caaaaaatat	gaaccaaaat	agtgcacgtg	gcagttacaaa	taactataaa				540
agcctgaaac	ctaaattaga	aaatctgagt	tctttaccac	cagattctga	cagaacatca				600
ggaagtatat	ctacatgaag	aattcacaga	agacatgcc	aaagtttaag	aatgangtca				660
acacattaga	aanaagantt	ctgggctttg	aagaaagaaa	atgttccact	tcataaagaa				720
ggttgaaaga	agaatgggag	agccnngaan	tttttgcccn	gaaattttcg	ggaaccctac				780
gggatgggtc	nactggttgg	ccatgaatga	ataatggact	aatcnnccaa	ttcctnggga				840
aggaat									847

```
<210> 623
<211> 681
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(681)  
<223> n = A,T,C or G
```

```

<400> 623
aaaactgtac tcgcgcgctg catgtcgaca ctagtggatc caaagaatcg gcacgagcga      60
aaangctcan gcagcccggc tggccgccgc cgctcctccc cccaggaaaag ccaangtgga      120
ngctgatgtg gctgcangag ctogtttcac agccccctcan gtgganctgg ttggggccgcg      180
gctgccangg gcggaagtgg gtgtccccan gtctcagccc caaggctgcc cctcaciaaag      240
cactggtggt ttgcctccac tgccaccttg ggctccgaac ccgctcccct gctgtggang      300
cccaccgtgg gaatccaggt ccccaggtgg actgcctgcc ttgccctcac tgcccactct      360
gcccacactt cctgcctag anaccgggaa ggggctgtgt cggtantggt gcccacctgg      420
atgtggcagc accgactgtg ggggtggacc tggccttgcc gggtgcaaaa gtggggggccc      480
ngggaaaagc acctgaagtg gccctgaaaa atccccctt aattttnccc caatttgggg      540
ctcnaacaaa aggaaattgc tgaagccaan ggtaccaagg tcaccctaa ggccagggtg      600
aaaaggtccc aaaattccaa tccccacnt ttgggcttnc ctcttggaac cccggccccc      660
tctcntgaan ttttaaaaaa n                                           681

```

```

<210> 624
<211> 661
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(661)
<223> n = A,T,C or G

```

```

<400> 624
attggtctta ctgtaccacc ggggtggaaat cgatggccgc ggogtctaaa tatccgattt      60
tttttttttt tectcttctg actgtccatg gacaaatgaa actaacttaa tctaactaaa      120
aaacacaact atattttgaa gattttctat ctgcactcaa ggacactttc cacnccggtt      180
ttgttacctt ttgggtcttg ctctgaacat gaaattnatc tcaagggatt ngatttctgg      240
acctcctatt cctgctatgg gtttgatatt tcttgggctc caggggccact gttgcattgg      300
gntgacagnt acctcctagc ccatanccct ctatcttggg aaacaaaact aacaactacg      360
tgtaccttcc atagatctct gattgagtct cagtatncgc ttgctcatgg gcgattcact      420
tgaatccgtn attggtgcc acaatcctga ctcatggggnn aatggatcct atcacgttcc      480
cctgattngc aacccctgta tacatanatc taatcgcata gaatctagcn tnggntatgc      540
gcggctacgc tatcagggnt tgntaactat ngcatggcta cgaancctga tcatgatcna      600
gggtcatgga ctcttatcag ggggggttgg ccngcttctt ttttcnnacc ttggtaaaac      660
c                                           661

```

```

<210> 625
<211> 181
<212> DNA
<213> Homo sapien

```

```

<400> 625
gcaacaatca gatcatgtta aagtaaatct ccattgccct ggatcacttc aggatttaat      60
tgtccaagga gagcaggggt ctctgtgtaa aaaaagggtg ggaaatgttt gagagtaaaa      120
aatacaaaaat tcaaccgggt gaaaatacac cactccattc agtgcctctac ccccataagc      180
c                                           181

```

```

<210> 626
<211> 181
<212> DNA
<213> Homo sapien

```

```
<210> 627
<211> 813
<212> DNA
<213> Homo sapien
```

[illegible]

```
<210> 628
<211> 646
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(646)  
<223> n = A,T,C or G
```

<400>	628						
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atcccgtaat	aacggaagac	gaagaagagt	cagaagagtg	cttctataag	gatcgggacg		120
agactacctt	agaggaataa	aggaaaaaag	cagaggagga	agagtggtag	aaggagtcag		180
aagaaaccca	cacgtcgttc	tgaacctgga	gccttatcaa	aaaggctctag	ataaacgata		240
gcgatctcga	tatcgagctc	aagaggttag	tttagagact	tctcgtctc	gagagcgaaa		300
tggaagatct	cgacgacgat	aagaagttaa	agttagagag	gtgcttgagg	agcgcgtgga		360
aggattctgc	ggaggggacc	atcgacgtag	agacttgaag	gcctactaag	gtccacaaga		420
agcccggctc	tttctccgaa	tgtcgggagc	gtacagtatg	cgacgtcgat	cggcagacaa		480
gctggcggtg	gactcgaagt	gttcgggcga	atcgacttat	aatagtcgcg	cgctagtaac		540
gtaggaacac	gaagagtagt	cgaagaaaaa	cgttttagtga	gggaaaagat	tagggaaaaa		600

ggagaggctt aataactaag acacttggag cctaggccaa cgcgaa

646

<210> 629
<211> 617
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(617)
<223> n = A,T,C or G

<400> 629
gccccnccc cctcctnngg gcttatnngg acagaccac gtagtactct aaatcttctc 60
ctacgccgga caacggaccc tataccaatt cgaatcttgg aactccgac cgccggattc 120
tcttcccctt tcggcttccc ctttctgtcg gtacccctcc ctatgcgtct cctacacctt 180
cgtaccgtcg atatatagtc gccgcggaact agcctattta ggtgtcctag actcgttatt 240
gatccactca ttagtctagt actatgogtc acgtatctta gttgcctaag agggagatta 300
aatcctccac aagtccgac gaattcctgg actctcgtac tagcaaacctt tcttatgagg 360
cttcttgta tatcttctgg atgtttctcg tgtcccggtc ctccgctact actagagctc 420
cttgccctat ctctagaagt agaggactct cgggttcggt ctccaaatct agcgctagag 480
ctatcgtac ccgctcgatt cccccagcgg aatcttgaaa cctgaggtag tacacaaacc 540
ctcncatct tccctcggtt gtccttctt ctcatcccc cttccgcct tctcggaan 600
gaatctactt tancttc 617

<210> 630
<211> 644
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(644)
<223> n = A,T,C or G

<400> 630
cnntcggcnt gggttttntt ctgagnnncc ccccccccc ccccccaaa cttacaccca 60
ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgtatag 120
taaagtcttc tacctcgga gtagagaatt cggatattta attcagggtt agaggctcgc 180
tcgttagatt tatagttag gtttagaatc ggaaaccttc gatcttctt agaagggtaa 240
taagtgaggc cctaaatccg tctaaccaag gcgttaaggt ccgtacctaa acctagtctt 300
atcttctatc aggcgcacca atataggtag gttctacttt cgtataggcc ttaaggaata 360
gttcggtagt tatogaaggc actcctctct aggctaggct tttctcagtc ttagtactcc 420
gggaccgtcg tcgcanaaat atcgatggac ggtaggtatc tccgcgttac gcgtcgggct 480
agggatatag agcgaattat cggcgagagg cggctcgctan gaatcggtag caatatgntg 540
ttctttaccc tacggatatc ggcagaaaac ataaaacctt ctnaccangg ataagggatt 600
atcggacccc taaaataaca gtaacattta gantactagt accc 644

<210> 631
<211> 526
<212> DNA
<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

```
<400> 631
ccntcggctt ggggtttttt ctgagccccc cccccccccc cccccccccc cccccccggc    60
cccatagccc caccggnccc acccaaattt taacaaaata aatntaccta tcgntcacct    120
atcccnctga tcgngtaggt cgggtaccgg accgngatc ncnacgattn ttcgggtcgt    180
cncccttaan acggncccggt agccnccgga anaaatacta cgagngactc taatntagca    240
anaccgcggt tcnattanta gcatecttag tcttccaatg ncgnggattn ngaatccttn    300
naagttatcg ggtagaacgg gtcccgggtcc cccgcctctt ttncaattaa cgccgggtac    360
aaantcgggt tctaaattcc ncaogaattt ngncggcaac attcncgggn ccttattanc    420
cntttccaac cccgatacnc nagctcgatc gggctttanc gaatccgggg tcnccccga    480
ngantccggg tcctttgagt ngctctagga cggttacgac ggagga                    526
```

<210> 632
 <211> 647
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

```
<400> 632
tttggngggc gggngctcat ttgggtggac tttttgggtc gtaggaacct ggtatgaggg    60
gtgtttttgag tttcttcttc gtcgtctctg ggaggttcgg tttcgattga gattcgggtt    120
cgtctttatc ttacgaggca cctgatattt gttgcgcttt ggtttggttg tggagagttt    180
tgtcctactc tagcgggtca tgcggatgat atgtagcctg cgtggcctga tagtgatgtt    240
gtgagcttga gaggggagtt gtgggtgttg cgggcggagt aggaggggtt ggagcaccgg    300
gattgggaga tatagaatca taagtgttag gtataggtcg attgagcgag ttcgtggaat    360
tcgtgtggtc atcataatta gagtgaggat gggctctata tttcttagag gacgcacggg    420
cgtgattcgg ggtttgatgg gtgttcttct tgtgggcacg attagcttgt tcatgatggg    480
aaggaccata ctgtttcgaa tgaggattcg tgtcttcgga ttgttggtga tattgtggnc    540
tanactatth agtgaagcc ggaggtggtt tgccgtggtg gagtatccga nnttcattcg    600
ganggtatgc gtgcggagcg gtcctttagt acattccgga aaaatgg                    647
```

<210> 633
 <211> 630
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(630)
 <223> n = A,T,C or G

```
<400> 633
tccttcgggt tgggtttttt tctgaccccc cccccccccc cccctcggga aggcctctag    60
gtccccaccc gtctctctaa tcctcaggaa ccgatccacc caaccaactt actaatgtcc    120
tacagtaaac acccgagaat ataaaccac acctaggcct ccaatcctac cagggaagca    180
agaagccgta gtctagcgta ttacgaaccc gagatagaga cggagatact tagttttatt    240
ctctcggaat aggaaagacg actggggagg gaatatagga tagcgcgggg ataggggcta    300
```

tggcggatat	gggggcgggt	cgctctctta	ttcttctata	ccacgtcaat	aggaatgtag	360
atatacctag	atgttcccgt	agaaagagac	gtttagaggc	tccgaagcta	taaaggagag	420
gcgcgaagaa	acttcgtact	ctagctttat	ataggtagtc	gctctagtcc	cataagcgac	480
gagagatcta	ctagatttcg	gtatcgccgt	cgtatgtatt	cgaaatagtc	ttcttcccct	540
tttcgatctc	ctctctatac	tacatggnga	ttatagtctt	aagatagtca	ggatattagg	600
atattagtta	tatgacgttc	gacgggacgg				630

<210> 634

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 634

ccntcggctt	gggttttttt	ctgaccccc	ccccccccc	cctccactaa	gancttaacc	60
caaccctata	gtttactcgt	ataggggaat	cgaggagaaa	taggaacgaa	gagcgggtga	120
taaagagaaa	gtactttcct	ttatatgtta	agagcttagc	gtaatgactt	tcgttatatg	180
gctagttagt	tttatccggc	gttatagggc	ttagttcttg	ttatctcggg	tctaattccc	240
ttagtatgct	cgggagttaa	acgaggtcac	gggatagcgc	gtaccctttc	taaggttctt	300
ggaaagctat	tcgttatatta	tcgcgattct	cgaggtcgaa	aggatcaagg	atcttccctt	360
ttactaccct	agtcgggtta	gcggtcggtc	aaaactagt	tagtaccttt	acctcctcga	420
aagttatagt	cgaaacaacg	tattagtcga	aattatagcg	gatagatcga	gacggttctt	480
tctcgggttc	tcagccggta	atccctctat	ttgggggtct	tctccctctt	cccctttgtc	540
ttccgcctta	gcttccaagg	ttcctcggaa	gcgaggggtt	ctacttaagt	cgntagcggt	600
ccttataaac	cncctacagg	cagacccctt	tgtaaacggc	tcgggggt		647

<210> 635

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 635

ccttcggctt	gggttttttt	ctgagcccc	ccccccccc	cccgaactc	gccttaccct	60
agatacccaa	agaatagttc	caactcaact	cgtctaagta	aaactctaga	acttccaaac	120
ataaaagact	tcgcgcgggt	agctacacag	cctacgggaa	tctcacgaat	cccgattcaa	180
gtcccactct	cgaccacacc	ccggtatcgt	cgttttccca	taccaatgtc	gaaaaataaa	240
ataaaatcca	gtcaagcccc	acggtaagcg	ggggtagggc	taggcgaaga	ggcaggaacc	300
gttcgaggcc	gggggctttc	aaaatacaaa	acaactactt	aaagtttacc	ccttctaaag	360
tcgggggcaa	cggttaaagc	acgcctctaa	agtactactc	gtttcgagaa	ggggtagtca	420
tctcccgcat	agagactctc	gcgtatatca	actcgcacgc	cttctagcat	tccgacggtc	480
gcccgcggct	acatatcttg	cggattagct	ccgagggact	atagggttaa	ttagtctagt	540
aaattctctt	agaggatagt	cggggtcgta	gttaggcagt	acgaggggac	atggnctgog	600
tcgtgctcta	ccttgacagc	atactcttat	aaacatcttt	ttcct		645

<210> 636

<211> 643
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(643)
 <223> n = A,T,C or G

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<400> 636
ccttcggcctt ggggttttttt ctgacccccccc cccccccccc cctagcggaa aacaatcccc      60
accgagatttt tattaatcgt aaaactcgcc ttcggtacca agtcttcctc cttcccgtaa      120
cctggctccc tcctagnngc tttacgaacg tccctcctct tcttacggct cggaagtggg      180
tacggttaaa tccggaggng gggctaacga atccaaggct aactcctctt anagtttggt      240
gtccnncngt ttagtaagga tccgtggagg gcgagtattt gneccccggc ctttattnta      300
tagttcccta gtacgataaa gntaccggct atcctattac agcggataaa agttatttan      360
agggcgcagc tcnccgctag acaggctaca gctagnngag gtaccgcctc cgactantcc      420
gttgnttccg acaaggngt ttcggttaac tccacaaact cctccgccga ctctanggtg      480
gggacggcag ttccnncgtt tagtgtgctg tatagagaag ggcatttgag ttggacgtta      540
cnttttaaca taggttattc cgtttagggt cttgcggggc cgtgggggta gtncccggc      600
gcgttnntat cggcgatttt ccgcagtttc cgtttccggn tnt                               643
```

<210> 637
 <211> 631
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(631)
 <223> n = A,T,C or G

```
<400> 637
gggtntcttc atttgggtgg actttttggg tcgtaggaac cggtatgnag gagtaggagt      60
cgctgggaag actagaagtt agctacggac gattagtgtg attccactct taataacgag      120
taatcgttta cgctcgggttg gtgtttcggg gttttggaga gtaagcgtag ttgtggagtt      180
tcgcatatag gtccccctac ttcggcgatc tcgtcttctg tcggttaggt tattattggt      240
catccttcgc attagtagta gggttggctg gataaatcga tagctattct ttagaattcg      300
tagtcggaga attcgtgtac gaagtccttt aagttcttta agttcgcgag taagacgtgt      360
acggttattt tgtcgtcgac gtaggtgtcg tttacgggag tttcgtttta ggggtttacg      420
tagaacgtta ttaagcacgg taatacgata gaggattacg cgacgtattc gtcttagaac      480
gtcgattttt cgaaggcgca tttgttatcg aaggggagtc cttggagaat cgagatattc      540
caagaatatt acggagatta cagatcggaa ggctcccag atcggacgta ttaccggtct      600
cgcccgaaac gagtaggtat cntccggata a                               631
```

<210> 638
 <211> 606
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(606)
 <223> n = A,T,C or G

```

<400> 638
ccccccccc ctcaaccatc nattccccac ctcaacgcga attacggtt cgaaagtcga      60
caataagtcc ggtcgagtag aggggaatcag gggctggtan aaaggaccac gggcggaaaa      120
taccggtctc cttccgggga gcgacgtcgg ggaaagggaa gagagcggtc tagttcgtag      180
gcaaacaggt cagaaaagtt aagggttaaag gtcggagggg agaggatagc tagtacgctt      240
agttcggggc tcgggcgcag ggccaatttc ctcttttcgcg ttcttttact ctgcttacga      300
gttcaggctc cggagtccg cgccggaggt cgtcgcgacg ctaggaatgg ggactcgctc      360
agtccccggg tatccttcgg gattctatgt ttctgcgcat agacggagac cgggtagtag      420
ggttcgctcg taccgccact cgtcgccttg atccggcccg ctccgcttaa gggcgatgaa      480
agattaggtt ttagggctct acgggacgag gcatagggag ggagaagggg ggaggggctg      540
ggggtcgaag ggantaagaa atcgcantcg cgcggggctg gtagganccg aaatttttct      600
cnnctg

```

```

<210> 639
<211> 592
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(592)
<223> n = A,T,C or G

```

```

<400> 639
tcntcggct tgggtttttt tctgagcccc ccccccccc cccccgggaa cgagaaaaca      60
atcccaccct accgcgggga gtgggttgna cgcttagttc tagaatctc ggaatcgctc      120
tcggcggttg gtagttccgg cgattccgag tatgccgaag tgtatcgctc cgtctagagg      180
ttggtatctg tttatcgca tgacgtatt gactcggatg ctttcgaagt agggggatag      240
gcgcatagat acgcctccgc ggtgtcctct gaagtggccg catccgtgga cgcagcgtag      300
acagctctgg tggacgataa cggcttctcg tactcctact ccgctatta tgttagagag      360
gacttgtttc tgaacggata taccattagc gaaggggtac cctccgctaa cgcaggcggt      420
tctaacagtt ctccggggcg ctccgaattt agattgacgc ctccgcagca ttgtgggatc      480
ctcttcggtt agccctcttt ataggatttc tctccgccc cgaaagangg ctggtcgtcc      540
ccggcangta tgtctagctc gaacgctttg ttactccttt gttttcgaaa na      592

```

```

<210> 640
<211> 637
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(637)
<223> n = A,T,C or G

```

```

<400> 640
ctttgtggcg gtgngtgtct catttggttg gacttttttg gtcgtaggct tatccgggtn      60
gggctcccgga agtagcttag gatcgccggc tagttccggt cccgcccgtc gaaagcgcgg      120
ttcggcgggc ggcccccggt tcgttcgcgg gctttaccct catagagtgc caggtctcgg      180
ttcttacggg ttcgctcggc atagatttta cggcgagagg tcggtatctt cgcgccttta      240
cgttcggctc gcactctacg ctagttcaca ggtagtttat gcgccggagc gcgtgacgga      300
gaggttatac gggacgcgga agaaccgct ccaaatagact agtacaggct cgttcgggag      360
tagatctcct cgctcggctc gcggttctta cttctagggc cgctctacgg ttttaaggcgg      420

```


tcgttagatc	ttagaaacta	tactcaagtt	tcagtcggaa	gaaaggaagt	agagagaagg	480
gtaaacgatt	acctccggtt	ctagcccttt	ttactcgcat	aacgggagaa	cgggggccgg	540
ctctcagata	cgcctcgcga	gacgtcgcga	ttcaacttta	acctccgcta	gggcatccgt	600
atacggttaa	cgcggtaaaa	gcgacctcgg	aaacctc			637

<210> 641

<211> 649

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(649)

<223> n = A,T,C or G

<400> 641

ctntgtggcg	gtggttgtct	cagtttgggt	ggatttttgg	gtcgtaggna	acctggtatg	60
aggtctagtt	tcttcaacga	ttcttgggtc	agttacgcga	ccctatcctt	atcttacaat	120
gtcttctaca	tcaggttcat	caattaatat	atcaattaca	cattaacgac	ggtgtgacgc	180
aatatgagaa	agtatacatt	aagggtatta	tatattatc	gcttaaaaag	gttcctgaca	240
tgggacaact	tcaccaccca	ttctagaagc	ccccctcct	gtaggacccc	ctcgagttcc	300
ccattatctt	agttcagttt	tcatttttta	accaggaggg	tatcggtttt	taataggtac	360
tattttgtca	aacttttcag	aagctttatc	ttcaaata	cttgccaccat	ctgtactagg	420
agcactaact	attcgagtct	attacagctc	aacagaaaat	aattgaaatt	aaacaaccta	480
agtatcgctc	accataaccc	catcgggctc	tcaccccat	tcttcataag	ttctagagca	540
tcctgagctc	tttcttatta	cccttgatgg	tactcatggg	ctaatacccc	ccgcagttat	600
aggtccttat	ggatcctatg	ctaccaccgg	tctaatacct	tctatcacn		649

<210> 642

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 642

tccttcgggt	tgggtttttt	ttcgtcgcgg	gttactatta	tcgattgtta	cttgtaaagg	60
cgatactccc	accgctcacg	atattagacc	tgctcctcta	gaagcgaacg	gcgataggtc	120
tactcgcccg	gcgaagacgg	cgaacgggta	ggaggagcca	tatgcaaccc	taacggagat	180
tataagtact	gggaaaaata	ctagtattaa	ggtagcgggt	taagatagggt	ggagagacac	240
tattcacgag	cataagcact	tagaaggctc	tctcgaggag	aggtaggcta	cggactacgt	300
tccttcttcc	tctagcctcg	agagggagta	tagatgattc	gcaaaaagaga	atccctccta	360
tacgctggca	taactagacg	acgcgtcgtc	gggaaatctc	gccaaacctc	ttgcgacctc	420
caaaaggaag	attgtcgttt	catagaacgc	taatactccg	ggtcttcccg	aatcatagcc	480
gcataatcgg	aagaagacgg	taaaatcgcg	cgattctaac	aagattctgt	agacttaagg	540
ctaagcacta	gaagcgatct	cgattccgga	tcttaagatc	ataactaatag	ttcggtcaca	600
ccagacgacg	attagccact	agaagcccta	ctccgtngaa	accgg		645

<210> 643

<211> 586

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(586)

<223> n = A,T,C or G

<400> 643

ctttgtggcg	gcggtgtctc	atttgggtgg	atthtttgggt	cgtaggaacc	tggtatgcag	60
ggtccgcccc	gaattaaaag	cgggatcccc	aaaacgnngn	ttcgcaagaa	gagaagaatc	120
atagcgatag	ancctttcata	gtacaaaggt	aactaagagg	aaaataatgc	agattcagaa	180
ctagttgcca	aattagaact	cgattaggcc	aaggatccga	gcctggcgct	atcacttcgg	240
gacttaagct	acggtagagc	agtcggtcct	gaagcatagc	tcccgtagga	cgtaggaaac	300
tagtccggca	cggaggacat	actctcgagt	ctcggaacgt	ctatthtagaa	tataaacgca	360
ttaacctcag	aaggcgccga	cgcggttact	ctctagggaa	ctatthtcatt	ccttccggag	420
ctccccattt	tttccaacac	atataccggc	aaaggaaaat	cttntgtcct	cggtctaaag	480
agagggaaaa	aaaacgatat	ctaggttcgg	gtttatccat	ttaaaaanat	ngacgcgact	540
actccctttc	aaaggggagt	tccccctagg	nagagttcaa	cngaag		586

<210> 644

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 644

ctttgtggcg	gtggttgtct	catttgggtg	gcatttttgg	gtcgtaggaa	cctggtatng	60
agggctatth	gacttgthtc	tcaaatacca	tggtatgggt	ggtggcggtc	ggggtgccgg	120
tcggttcggc	gggggtgggg	gtcgtcctcc	aaaggagttg	ctagagggtc	tttagtggtt	180
ttagggcggg	aaggggttag	agcggagaga	cgtcgtcgtg	gaagcttctg	gcggagccgc	240
agaaggtagt	tagcgccggt	tcggaagatt	ctcagaattc	gagaagaggt	agtggggcgc	300
ggagagagag	tttctaagtc	taaacgtaga	ggtcgtccta	gtcgggccgg	gagtagctth	360
taagctagag	gtcgaaggtc	tcgttttagc	tccgggctct	tcgggcagta	tcctctthct	420
cgaggaacgg	agcgaccgac	gtcgtagccg	gaccgcgtct	tccgtacgtt	tagagatacg	480
ctcacctcca	cgggcgtata	tgcccgtata	cgtataaacg	cgtaatatac	tcgcgcgtaa	540
aacacgtata	cactatatac	acgcacgtga	cggaccgtat	agcgttatac	gcgcgcggtat	600
attaatthac	acttatatac	gcgttaaacac	gatataatcac	acnccg		646

<210> 645

<211> 654

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(654)

<223> n = A,T,C or G

<400> 645

ncctcgggct	tggtgttttt	tctgaccccc	cccccccccc	cccccggtcg	acaacgtgcc	60
------------	------------	------------	------------	------------	------------	----

```

caccgttgcc atcccagcat agctgggttcg ttctgtttta ttcttagtag tttagttcgc 120
ctatagtccc tcgtctatcg tctatcattt aaggaggcgg ggctcgctct ttagggcggg 180
tatcttaggt attcttctgg ttctggctgc cgtctcggag tctggtcctt ttgctttcct 240
ttcttggtcg aacttcgtgt ttgatcgctg tgtttctttg gggtcgtcat acctaaagggc 300
cacttcgcca acaaacaagt ttgtgtagtc gtttctatta gggttcgctg gccggcgctc 360
ttactggttg gcgattttta acgcgttttg ttttaatttg cttcctcccc tagggctcgc 420
tcggctcttc ctctgttcgc tgcctcgcgc cggccttttg tcgggggata gctccggcta 480
ttancgtgcc gtgtccgtgt ggnnttttgc caatgtgaag gcctaggggt gcgggcttct 540
ttggccatgg ntccccctct tgtgancctt aggggtaacg antcgttaatt naaggtcggg 600
ggttggnata cgttntangg gangcctgng tccgntatto cttgttttgg cctn 654

```

<210> 646

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 646

```

tccttoggct tgggtttttt tctgagcccc cccccccccc cccccacgcc aagtacacag 60
acccacccaaa aacaacgtca acacaacttc ggggtatacgg accttaagag agaccccgta 120
gtagacccta ccacagccat ccaatagtca aacaacaagg gcgcacccaa tccatccata 180
gagctatcaa acaacggagg ggaaaggaaa gagcagggtc aacttagcag agatcgaagt 240
cggcactaat tccttttcaag tactcgctcg gcttgtagtt cggggtaaag tccgctctca 300
aagggccaac gaggttttaa agcgaccccc gtatcgagtc ttcttcgtat tcattaaggc 360
gttaaaggta cgagacctag aagagagtag aattagccca ccaaatcgcc taaaccggca 420
aaaacgacca aaagtcaaag acccttacia atatcacctt aaaacgccaa ccccaaaaac 480
gcgatcagta acgcacgtac ctttcccacg cttttctttc tttcactctc caaaacaaac 540
ccgaatatatt agcgcaaaaa atatccgagg gagaattaga agctattacc cgaaaaaaa 600
ncgganangg antaaatngt ggggaatana cgtttggttt ttctg 645

```

<210> 647

<211> 753

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(753)

<223> n = A,T,C or G

<400> 647

```

accttacctg gtaccgggcc cccoctcgag tttttttttt tccaaataca actcagattg 60
tatacgaaaa gctgataata cattgacttt tgctgtttta atcccttgag cctttgataa 120
tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc 180
catattgatt agtttgattt tatgggtgat ggatcattgt gtgttaactg tattaagaag 240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatttaa 300
aagcatttct ggaccagaat aagttaagt gtataatttg ctttttacac gtttatataa 360
ttgaagttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat 420
aaatctgagc tatttcttgc ctggagaaca agtgttatct ataataattt aatagcttct 480
gaggtgtttt gttcatgtga tgaaggctta tocacctgt atcaattcat gggctctgct 540

```

ttgtttaatg	tagtcagggt	gttaatacna	gacttaagag	tcatacctact	gtgataagtg	600
gtgagtgaag	attacatgtc	ttangaaaat	tatactggga	atatctctga	cattaatggg	660
tttaaagtgt	ttaaggctag	gggatgatgc	aatgganaan	atncttccaa	angtttctgg	720
ttgtttatat	ttgnngaagn	catnaagana	ccg			753

<210> 648
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 648	
gatatcccg	60
gaaatgcgg	120
agggccttng	180
gcttacgtgt	240
ttaccgcgta	300
gggcaaagcc	360
ttgncaaatt	383
cccgccagc	
ggagcggcga	
gggtggggac	
tcacgggaag	
ttaaacagcc	
tcgtcggcgt	
cctcgaggct	
ccaaaaccag	
gctctaggcg	
gggacgactg	
cagccgttat	
ggaggccacc	
gcggctacgg	
ccgcggctga	
ggcctcccca	
ggtggagcgg	
tggcctggag	
gggaatcttg	
atcctgggcc	
agccacctgt	
caagaggagg	
cggagcgtca	
tgcctctgga	
agactggatg	
aatattctcc	
aggagcctga	
cgaaggcgaa	
gaagtctttg	
cagaggaaat	
tgaatgctgt	
ctgatgctac	
aat	

<210> 649
 <211> 349
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(349)
 <223> n = A,T,C or G

<400> 649	
cgattgtnta	60
cnagtcttag	120
agtaagctta	180
agntcgttac	240
cgagctcgga	300
tccactagtc	349
cagtgtggtg	
ggaattccat	
tgtgttgggt	
cactagtaaa	
tggtatttagc	
tagacanagg	
anattttacc	
tattccattt	
agcacagtga	
gganaggcta	
nacagctagg	
atgcaataaa	
aaaaatttta	
atgagaaatg	
tgtgtggtag	
attaattcta	
ttaatctcaa	
gttatagatt	
aaaaaattta	
agtaccncat	
aaatgccatt	
tgcttttgct	
aangntacat	
ttttatgaan	
aangaccntg	
catacnnaat	
ganatactgg	
actttnggna	
cttgangga	

<210> 650
 <211> 306
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(306)
 <223> n = A,T,C or G

<400> 650	
cattgtgttg	60
ggagcatcct	
tccatcagct	
cccatgagaa	
attctctgtt	
gggtttaagc	

aatccccaaa	tatatcatat	tgacatgaat	atatcatctc	ctcaatgtcc	agcattagca	120
gacaagatga	gtgctgaaga	tgatataact	cctacctctt	atgtaggcta	gaggtaaagt	180
ctggctctgc	tgactgtggg	gacataccga	aaaggaatgt	gggttaatat	cagangacct	240
ccctgcagat	ccganantca	gggnctggac	tttctgggan	aggaagcnaa	aagttatntc	300
tgaacc						306

<210> 651
 <211> 769
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(769)
 <223> n = A,T,C or G

<400> 651						60
cattgtgttg	ggcagggcca	tttctaaggc	atgggctgga	agctttttatt	taaaacttta	
catgtcttag	aagcactctg	gttgttgcta	ggcagacaat	tttacctctc	ttgctatacc	120
agttgcatga	agttcatcat	gcatattggc	tgtggaaaac	cttaacagca	tcatgtcata	180
agggtttcagt	aagggtttaaa	tgaaatcatg	tattaagcac	ttagtatagt	gcaccttaaa	240
tgttagcttc	aaaacaatga	caacctaaact	aatgttgaaa	gaagcttggtg	tttgtaaatt	300
atgtcttatt	gaaagatgtc	atcaaactcct	gttattttcta	atcccttaaa	gtctctcaat	360
gtattttcttt	ttgccatatac	caatgacagg	accttagttt	aagccagtgg	ttctctcaac	420
ttctaatacca	gagataacctg	ggtgtcccca	agaccttttc	agagcatcct	tgatgtcaaa	480
accatttttca	taataatatt	aaaatattat	ttgtctcattg	tactcttatt	ctctcccaaa	540
tattcagcga	gttttccaga	agctatataa	catgtggtaa	catcttatca	ctctgacgat	600
taatagaata	tgngnttttg	gattcttgng	tttaaaattt	tctcactttg	gggttctaatt	660
atggnnacga	ttaatatagata	tggnctccat	gaccagangg	ctttaaagca	ntcaataatt	720
tttaagagac	taagnactat	ccttttaaaga	tngngaactc	catcttaatt		769

<210> 652
 <211> 267
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 652						60
nnangccctt	taaccattgn	ggcctccacg	cnntggcgcc	cgctctacaa	ctagnnggatc	
cgcactctta	gnanaangat	tggctcttnt	gggntgggcc	ggncgggctg	gggcgttaag	120
cggggctggg	cgcgcgcgcn	ggttgnacna	ggcgcgcgcc	ccncacacn	cccggagcac	180
cctcnttgc	gcentncccc	gctcaccgcc	cgcgcgcgcn	tccgcttttt	ccncacccan	240
agcncntttt	atctntgtct	cctccgg				267

<210> 653
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

```
<400> 653
cccnttnacc cattgctgga ctccaccgcg gtggcgggcg ctctanaact agtgggatcc      60
ttncnatgag atgngcgang gaggaennat ttgctatnct ggatggggct gantcntnta      120
gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg      180
cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg      240
ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat      300
ggacntatca cnttanaggt acanntnccg caccacacac cngcttgcn cctgacgctg      360
gactggatcn cttaggccac caatnccccg tttncacat ncctgggacn ctananatac      420
tcganggggg gcccgggtanc caattcgccc taatactgag ccttgntacg nacgctnact      480
ngngtctcta ttanaacgtt g                                     501
```

<210> 654
 <211> 710
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(710)
 <223> n = A,T,C or G

```
<400> 654
gcgnctttan cncatgctgg gctccacgcg gtggcgggcg ctctacacta gtggatccca      60
aactgagtc caccacagna aaactcanca ccaggcagac ccacaactg cagaatccag      120
gctgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct      180
caaggnttta ggtttgctg gtanactcaa tctctatctt tcaccactgc cagcctgact      240
tcagagatcc tgngtcttg acagtcctca gtggcaggca actctcagga gcctcaggnt      300
tttggcacat ccagnacca gccagctgcc acaggccctg acctntanc aacctgccc      360
atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag      420
gtgcnctca aanctgtgcc tgctgcagna ngccccacgt ctctggcatg ccccaatgcc      480
atngtggna acanttgact tctgggcatg ntggaattcc ctaccactga ncctgaccat      540
aggnggganc ccatTTTTT cgaggggggg gcccggcccc caattccncc ntatagngag      600
ncgtanttac gcgcnnctta ctnggcngt ngtttaacaa cgtcnntgan ctggggaaaa      660
cccctggngn cnacccaaat taaacngcnt tgcannacat cccctttcg                                     710
```

<210> 655
 <211> 202
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(202)
 <223> n = A,T,C or G

```
<400> 655
ccccttttnc ctttcanccc ccccgTTTT gngccgcn acacctactn catccacca      60
cantcgacca cccgagcttt tttccgatcc cancatcnat gcngattttn tctntgcntg      120
ctgngcctgc acctttgnta ggtcaagcct ggcccattct cgacaacttc ctcatcacca      180
acgatgaggc atactctgac ga                                     202
```

<210> 656
 <211> 308
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(308)
 <223> n = A,T,C or G

```
<400> 656
gctgntgaaa gaccacaccg aaaaactctn ctttccgact tccacatgat gatcngcatg      60
tggtgggtgag agacttatca tgacgacatc gcttccnacc atcgcanccn ctgcccgaagc      120
ccattcatgg aggctgggn anttctgtga ntgaentnga cnctanaenc tnccactgtn      180
tgctatccag acttgnttng aatatnttat tggcnaaana canttnccga atgctgtgnt      240
tgnncattga angatctgat cactatgaga gggtgaggac nncctgctng ctggcantnt      300
ntaaccn                                           308
```

<210> 657
 <211> 696
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(696)
 <223> n = A,T,C or G

```
<400> 657
accntttcca caatnctggn ctccccgcgg tggcgggccgc gtcgaccagc aacctcagct      60
gtgggtcttg ttacagtaat gagttactgt aaggaaaagtg tgacatttcg agcaatttga      120
tttgtttaaa aactagagca gtttcagggt tttccttgta aatctgtctt atgtgtcttc      180
aatgttcttt cttgaggagt agagaaagga attgttagga atgatgcata aaccatggct      240
tattttatct cgtgccacc cataatcaga gcagattctt gggactatga ccctcatgga      300
gacatgacaa ttgtgtgtgt ggtgggtggg agaaaagagc tgggaatttt taggggtctag      360
agggtccaat caggactatt ttatggagct ctgctacca actttaagtg agcaccaggg      420
gtnggaaagc gaatcttggg ntcaaaaana caatggnaag gggtaagttg gtatnctgaa      480
ctggccactt cggactctta ttttaactggg tattctcant taaggaggen nggggtggtct      540
tggcttgtna aggaaagcct gtgcaatgga atgactttaa aaccccccat taaaaaaaaa      600
angntataaa tcttgggtct taanaangaa gcctgggttc tnttanccca ttttnccccc      660
gggaaggnaa atntttcttag gnaanggaag ggaagg                                           696
```

<210> 658
 <211> 698
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(698)
 <223> n = A,T,C or G

<400> 658

```

ctggactccc cgcggtggcg gccgtcttag aactagtgga tccgtgttgg ctcaattctc      60
aaggctgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag      120
cttgtgttgt ttcatgtctc gcgtggaggc ccttcctcca ggtcgctgct ctgtgggggt      180
cccatacact caggctccta ggaggagtcc atttagaaag ccagggtttt tctcagagtc      240
ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc      300
aagagaaaag acagggaaaa taagagaggg accttgacac cacacgctct ggaccacaga      360
gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcagggggtc      420
gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg      480
gtttctccta cgcactctta tttgcagagg gaaaggcggg tttgtattgg ggttgtcggg      540
ctttgcaccc acngcacagt tgtgagacac ccccatcctn agatcaaagc cccacataca      600
gcttggggaa aaacaaaach aaacaaaaca aaaacagtaa acctccatgc canttgttgg      660
gnaagttttn aatttncttc ccnaccan cttgtctc      698

```

<210> 659

<211> 750

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(750)

<223> n = A,T,C or G

<400> 659

```

ncaanctggn ctccaccgcg gtggcgggcg ctctagacta gtggatcctc ctcatgggcc      60
tggatatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt      120
gaggcctaag aatgntatatt tcttttagtg atggtctttg tttgcttctg taaggnaactt      180
gtgggcactc gtaagcttgg atctctttta tctaatacca gntttgagat tttcttggcc      240
ccatagatga attaaaaactg gcgtacttct tgtttacaag anggataagt ctctagggt      300
aagtcttttg ggggcccaag tcaaaaagat gagggattha ccagttctct aaccttggt      360
gccccagact ccaaaactttg ccttctagtc ccaagaggct atcaaaaagc aaaggccatc      420
ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc      480
ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc      540
acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt      600
cagcttggcc ccctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt      660
tttnttggcc cctgactttc nntttttagg gctttccccc angctttgcc cctttgggta      720
aagggttat tttccttccc cttttggaag      750

```

<210> 660

<211> 849

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(849)

<223> n = A,T,C or G

<400> 660

```

tcggatccac tagtccagtg tgggtggaatt cgcgggccgc gtcgacgggc agtagtggt      60
tgcntntcta aatgttataa ttatttcaga attactctgc cagaaagtta tgatcataca      120
tagaagagtt tgtagctaac tttgaaagta gtggaaagtg gttttcatgt attgtttggg      180
ttaatttaat tttgattata tttgggtttt agttcaggta atttttttgt tgaaaacttc      240
aaatgacaat ttcttcatgg ttactaaaga tcaactcatgt ggagtagttt cagatttttt      300

```



```

tctgaataca tgtattactt ttagagatgt aaagatgtga aattactaag agagaaaccc 360
atgtgatttg tttagtggat caaaagtcgg tagctccttt gatcctaagt gccactgata 420
gttaaataga tactgaagct atgggcaggc tggattgata agaaaaaagg agacagagaa 480
atgggaaatt gggaaagaac tgtgcaaata ggaaaaggag agagcaacag aacagaatta 540
gtaccacagt gccgaagtgc cacctcaggt acttccatct cccatctcct gaagaattca 600
gtaacagttt gcaaatggtc aacacaatca tttagtgatc ctggttgata ttttcaatac 660
tttctgggga tttcttggct ggnttcaaaa gatgatgctg atagttttat tgcccctgaa 720
ggatttctga agnttancat aattttattgg tcagtaaaat atttgaataa aagngganga 780
aggaaaatct ggcntcttat tttgggatnt cngcnggggg aangaggata taattnaccc 840
cggccttgg 849

```

<210> 661

<211> 653

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(653)

<223> n = A,T,C or G

<400> 661

```

aacttaagct tggtagcgag ctcgatccc tagtccagtg tggtaggaatt cgcggccgcg 60
tcgacctcca ttcgtttctt gtcccttttt ttcatttttt ctcatgttct attcacttta 120
ggttttctaag ataaatatta taaaataatt tttacttata aattattcac tgataccctg 180
tctttaacat gtgaaatgaa ttcaaaaagga atcttaatga gaaataatat actcatgatg 240
tttaatagat ttgatttcga aataataagc cctctgaagt cctaagttaa aaataaagca 300
acttgtttga taatttttca tcaagaatgt atctgagtct ctgagtaatt attagtagga 360
atattccatt atcacaatta cacagtataa gctattttagt ctaactttac caaaaaaggg 420
agctacttca acactgtgtg agacttttaa tgggtttgca ttgggtatgc actattagca 480
agataaccta ttttacagca gtgtttntta acctttccca tttatttgaa aggcagctaa 540
gatatagtag ttaatntaan gggctgatgc atttatatta catgtagana atgggagata 600
cnaaaggag nggggggana tnttttgnat tcnnaagctt cnttgncaat taa 653

```

<210> 662

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 662

```

aaacttaagc ttggtaccog agctcggatc cctagtcag tgtggtggaa ttcgcgcccg 60
cgtcgaccga gggacaggca gccagnctg gggtcaccag ggtccctct tgggccctcc 120
aanagcaaca gtactggcaa cagctgggat ttgctgagca cagactctgc agcaggctcg 180
gttgagctct ctgtgcctgt tccttcatac catcctcacg cccatccatg agatgggtcc 240
agctgttttc agatgagaaa atggcacagg aagctggtaa gtgacagtca gaaatgaatg 300
ctggcagctt antccttgga cccaccgcag tgcaggacct tgctcaacag ggatcaccct 360
tgtccgccac ctgttcatga ggccaccag ggtttgtgtg gtcatttgc tcctttcatc 420
tgcttgccct caaccagctg ggtcattagg gctggggaac ccagaccca cacagtcctt 480
ctccagang ccagacacan nctnccgcc agnaaggact tcagtccccg aancaaatgt 540

```

ncctgggcgt anaaactgna gggccccaa tccctgggtgg ggtactgctt tgcactggng 600
gaattcacc ctcattgnna acctttccct nttncaccc ctaaac 646

<210> 663
<211> 650
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(650)
<223> n = A,T,C or G

<400> 663
aacttaagct tggtagccga gtcgggatcc ctagtccagt gtggtggaat tcgcgggccgc 60
gtcgacgtcg acgcggcgng ccgtttcgac gcagttgata catattatta tatactacat 120
nggttttcta gaattaaaaa attaatgtgt agtgccagcc ctagatgtaa gttacatata 180
tcaactctat ccaattttgt cagccataaa acttaccttt ttcacatact tctaactcta 240
acaatgtgag aaatgtagat cattgcaatt ataccacaa ggcagatggc tacatgcaga 300
atggatagca gaatctagct acttacgcta gccacatggg agacgttttt tcctttgttt 360
ttgcaaaatt gcaatataag ttgcatatcg ttagagtga aagatgtaaa gaacccatag 420
aagccagtga tgaaggacat ttatattttc acctttacaa angaccttaa aattgcctat 480
gtggagcaga aactggagga gggcnaancc atcngtaaaa aaaattttgn tncattttgg 540
atttgggcac cattattacc tccccaggtt cctttttgnt ttaacctttc ttttaaaaaa 600
aataattcnt aattttttggg caaaaaaaaa caaggttttt atttaaattt 650

<210> 664
<211> 678
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

<400> 664
taaaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttcog ccattttctac 120
agaaagctgc aatttcagggt tttcaacctt ataggtgata ttttaagaaaa aaaaaaagca 180
atcgcaataa gccccactgc ttttacaat cattttttct cttctaggta tagcctgtca 240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
agagatatgc ctgcaactaa cttaagtggg gatttatgta tttctcaagc aagtgattaa 360
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
anaattattt taggactctg tggcttttct ttcatagaaa tagaaaaaa aaattgtata 480
aaaaccacaa aaggtcctga atagcccaaa gcaacactga acaaaaangaa caaagcagga 540
agcaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagcattct 600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaaataaat 660
cctatatatta cngcccn 678

<210> 665
<211> 694
<212> DNA
<213> Homo sapien

<223> n = A, T, C or G

cttttcaaat	catttttnc	cttctaggta	tancctgtca	ggtggcctaa	tgtaattttt	60
gacatctcta	ngaattttta	tagaaccaga	aatgggtgcc	agagatatgc	ctgcactaat	120
cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	agcaaaacta	ggcacgattg	180
aaatcaagat	cttttaggca	anaaagtc	gatgagtttt	agaattattt	taggactctg	240
tggctttctc	ttcatagaaa	tagaaaaaaa	aattgtataa	aaccacaaaa	ggtcctgaat	300
agccaaagca	acactganca	aaaagaacan	agcagggaag	caacacacta	ccngaattca	360
aattatacta	ccagggtgta	gtaacccaaa	cagcattcta	ttggcataaa	atagacacca	420
agaccaatgg	ancagaataa	agaaccccac	aaataaatcc	atatatntac	cgccanctga	480
ttatcaataa	cnaacaccaa	gaacatatnt	taagggaact	nctatttcaat	aantagtgtc	540
ggnaaaaaact	gggaaatcca	tatgcagaaa	naatgaaact	agaccctat	ccctcaccat	600
acgcaaannt	caacttcgga	atgggattac	aaaacttaag	acattccaac	ccaagaaact	660
atnaaancta	ctattaagaa	aacagatcnc	nccc			694

<213> Homo sapien

<223> n = A, T, C or G

tttaaaaaatt	tagatacact	angaaaatta	tttttagtatt	agaagaatat	caggggggtgt	60
agtactcatc	agagctaaat	gagagcgctt	taaaaatgtt	agtttgtctt	cgcgcatttc	120
tacagaaagc	tgcaatttca	ggtttttcaac	ctaattaggtg	atatttaaga	aaaaaaaaaa	180
gcaatcgcaa	atagccccac	tgctttttaca	aatcattttt	tctcttctag	gtatagcctg	240
tcagggtggc	taatgttaatt	tttgacatct	ctaggaattt	taatagaacc	agaaatgggt	300
gccagagata	tgcttgcaact	aatctttaagt	ggggattttat	gtattttctca	agcaagtgat	360
taaagcaaaa	ctaggcacga	ttgaaatcaa	gatctttttag	gcaagaaagt	catgatgagt	420
tttanaatta	tttttaggact	ctgtggcttt	ctcttcatag	aaatagaaaa	aaaattgta	480
taaaaccaca	aaaggtcctg	aatagcccaa	gcaacactga	acaaaaagaa	caaagcagga	540
agcaacacac	taccagaatt	caaaattatac	taccaaggtg	tagtaaccaa	aacagcattc	600
tattgggcnt	aaaatagacc	naagaccaat	ggaacagaat	aaagaaccca	aaataaatcc	660
atattttttac	agccagctna	ttatcaataa	aaacnccaag	aacnt		705

<213> Homo sapien

<223> n = A, T, C or G

<400> 667
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
 aattacatta ggccacctga caggetatac ctagaagaga aaaaatgatt tgtaaaagca 300
 gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgcctctc 420
 atttagctct gatgagtact acacccctga tattcttctg atactaaaat aattttccta 480
 gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540
 tgcacttagg aggtatcgca agccgtttct ggattaaatt ccagctagc ttgcttgctt 600
 agcaggggcg ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660
 tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatggttcag 720
 ttgggggtgg ggatccccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780
 agggctcgcc tgcatttana ctcggaattt tgggtgcc 817

<210> 668
 <211> 826
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(826)
 <223> n = A,T,C or G

<400> 668
 cggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
 taccattcga gtccctactc ctgccttgct ctagggaat aaaataacgt aaacacgtaa 120
 gaacaatgcg aaagcgtttt cttccctagg ctgcagattg tcttcttcac cgcccttgct 180
 tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240
 ctcgttttga gttacaaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300
 tagggaaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna 360
 atgagagcgc tttaaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
 cagggttttca nctaataagg tgatatntaa gaaaaaaaaa acaatcgcan atagccact 480
 gctttttaca atcatttttc tcttctaggt atagcctgtc aggtggccta atgtattttt 540
 gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgactaatc 600
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaaactag gcacgaatga 660
 aatcaagatc tttaggccag aatcatgaa nanttttana attattttan gaatctgtgg 720
 cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggtctga atacccaagc 780
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 669
 <211> 547
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(547)
 <223> n = A,T,C or G

<400> 669
 cattgtgttg gggaaaaaat gatttgata agcagtgggg ctatttgoga ttgctttttt 60

```

tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
catgtaatcc gcggaggttag taactcaaaa cgagtgcata tnggaagtat cgcagccggt 300
nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct 360
gcagcccnng ggnaaaaacc ttgcgattgt tcttacgtgt ttacgttatt ttatttcctt 420
nnagcaaggc nggganttg ggactcgaaa tggtagcgtt gggctgggga tcgcccttgt 480
tacataaaag ncgtccagaa gagggacggt tacaggcnng gantccaaa ggtcagtcct 540
tgccatt 547

```

<210> 670

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(232)

<223> n = A,T,C or G

<400> 670

```

cgaactatth agactaccta ggaaaattat tttagtatca gaagaatata aggggtgtag 60
tactcatcag agctaaatga gagcgcttta aaaatgttag ttgtcttcc gccatttcta 120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaagc 180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

```

<210> 671

<211> 214

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(214)

<223> n = A,T,C or G

<400> 671

```

ctcccccttcc ntccctcgt actnncatt ttcnnaaatt tntttcgcnt atngggaaaa 60
acaccacat tnttcanct gcacagaaca ngnggggtg tgtaaatga agggcttcn 120
cncctttctt tattnaana cactnaana gggangggct aaaaccgcg ngatntctac 180
nctatcgcg ggcgttttg ngttggctag aaga 214

```

<210> 672

<211> 328

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 672

```

ngancagcg ngtttaaagc ggctctaga ctgaggaga cncctgttg atggtggatc 60

```

```

acanntcgnt actactatac aggacagagt atcggganct cttggntggt ggngcctgcc 120
aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac 180
cggctcgaat gnaccatgga tgattcnnc tagttgaaaa aaaactcagg cacatgtatt 240
gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgnrngtgtg 300
nncnccgtgc tgnctccaga agaggttc 328

```

```

<210> 673
<211> 223
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(223)
<223> n = A,T,C or G

```

```

<400> 673
gggggcaaag ctggctagcg tttaaactta agcttggtac cgagctcgga tcccnagac 60
attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catntcacc tntgncngc 120
tcaaaacaac ngctttctgc tgcaatgggt agggctcctn acncacgggc gcnnacggag 180
gccncttat cctntcgggt nnggatccct ngaagcatnt tct 223

```

```

<210> 674
<211> 256
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

```

```

<400> 674
gnggggtcnt ngatgagcgc gcgtaatacn atcactntcn ggcnrgntgg gtaccggggc 60
ccccctcnaa gcggccggcc tttttttntt ttttttcatt acatgataa ntctttnttc 120
taaacagacc acaccactan agttcctttt ctttngtacg gaattgagtt aaagtagagn 180
atacaatgca gggcttcnnc tctatttcac attccaggnt gggtcngnat ggatcggccc 240
tgcctctccg atgggt 256

```

```

<210> 675
<211> 439
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(439)
<223> n = A,T,C or G

```

```

<400> 675
nnactagtcc agtgtgggtg aattccattg tgttgggctt gtatggggtt tttgtctag 60
ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct 120
tctatgggct cctcanacng aactcaacca tttccacaa aaccnattcc tcctttccct 180
tcatgactga gtgggtgttg tactatccng gaaactggga cattgtcctt cacatctntc 240

```

```

cettanctgc ctngtccnat tgatgtcttt gagctntgan atgtctttgt taactntctc 300
ctnctctgt actgccggca naattaagca ccatntgtca caaaaagtat tgcgttacct 360
tcacgnatct gttngttncc atncttgctg cttctcngn ggaaaatagg ctnttctggc 420
aaccgaacng aanaaatac                                     439

```

```

<210> 676
<211> 587
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(587)
<223> n = A,T,C or G

```

```

<400> 676
ngngggcctn attaagcgcg cgtaatacna ctcaactntgg ggcggaattgg gtaccgggnc 60
ccctcaagt tnatntgccn aacctctctt ttggaataac aaaaggttta acacatatgt 120
cctcataggg acgcgctttc acacnttctt gacngcttca tanacntcat tntctatttct 180
cctcagnaca agttnaggcn gaaggtgagg canacnttat aatttccatt tcacaaatnc 240
ggaaagtgag gctcaaaggg nttaaaaaat aacctgatac aantcataga gccggtnctc 300
ggaanaagca ggagcaaagt ccaggcatcc tgatccaagc tnggtccact gccttccact 360
ctggagaggg ttcattctccg acaaaggaag ggacntgagt ggctgganaa tctcatggga 420
taaagacctc agnatttcat gctcctggaa atcccattggg ttgaacaaca ggtntttggc 480
ccgtgggttct ntccctttgn ccattcttta accttggggg aaatgatggc ntctntnagc 540
nttttttttn aaagagatng aaattgaatg attatnngct cattggg 587

```

```

<210> 677
<211> 444
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

```

```

<400> 677
gtggggcatn attaagcgcg cgtaatacga ctcaactatag gggcgaantg ggtaccgggc 60
ccccctcgaa gcggccgccc tttttttttt tttttactgt ccaaactntc tatngatnta 120
gttgaactgt ncaacgattt catgaaattc tatacacana gccttcaggt ccagagagta 180
aaacaaatth aaatttnttc accanattgn agcagncana agcatccnat natatccgac 240
tacaatgaat natatgctna nggtanctna tttaccact ntggggtctt tanggtctgt 300
cacaaactat tttcgtaaac atcnntttta anttnggtga atggacctaa tnccagataa 360
ntctatttna tntaccctag catnctgtg gctnactttn cgggctgtgt tggcntactt 420
ttaggagaaa attggtataa atnn                                     444

```

```

<210> 678
<211> 670
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(670)

<223> n = A,T,C or G

<400> 678

```
actagtccag tgtggtggaa ttccattgtg ttggggagcag tttaaaaaaa aaaaagacna      60
aatatacnac tcttgatnaa acataaagggt acagtgggtct atgaggaana gaaaaggtag      120
ctnaggatgc aaaantacct accacatggg aaccgttngt ccacactcat tccnnanaaa      180
accgagtcct ctcanttnca cacgtgtacg tttcagttgg gaagtgcctg ccattactcc      240
naagcctaga accttcacgt cctgaagggt ctggaagggt tttcagattg ctttaaganac      300
gcngcccttc catattcttc tccactaccc nggggaacgg aacaaatgga gctgcgacng      360
ggaagcgctcc cttcccctcc gaacgctttc tttcaaacct gcctgccttc cnggcgaatg      420
gacgggaagg ttttctngct tcctttcanc ccnaattact tcttgngttg aaaattggcc      480
tggttggttg caaatgcngg aatttgttta ctttctncat gtctgtgtgt gnnncnaaccg      540
gtctncttgt tgctcccttt tngaaagggt ttcacagggc cccgcccttt ctcttntaan      600
ngtcctaate cggncnggac cactcgggga aaattttttc ttttcgaaaa gccgcccct      660
ccgtccggct                                     670
```

<210> 679

<211> 449

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(449)

<223> n = A,T,C or G

<400> 679

```
actagtccag tgtggtggaa ttccattgtg ttggggagtag gtctactaca nctacttcc      60
cctatcatan aaganccttan caacnttcat gatccccccc tcntannctt tttcctcanc      120
tgctccttag tctgttttgt cctnttctta acantcntaa ganagatnac taatnctact      180
atctctnacc tccggaanct acaanacgtc tggaactatt cngaccccat gcancncat      240
nctccatcgt cctcccagcc cctncccttc ctttacntta ctnaacgaag gtcgacgatc      300
cctcccntac ctcccnnncc attgggnccc aanggnactg gacctcacga ntacaccnac      360
tacggggnga ctaagnctgn aactccttac atatntcccc gttaccccn gaacncagcg      420
aacngcnaca ccttggacnt caagaanta                                     449
```

<210> 680

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 680

```
tttcngtgtg gtggaattcg cggccgcgtc gacgagaaga nggaggagga naaggagaag      60
gagaagaagg agaanaagga ggagaaggag aagaaggaga agaaatcatc atcatcatca      120
tccactgtct ngcaactatt taagtttgcn antcccttga aaacaggtag ttttgtttca      180
atgtttggga ccaactnctga cnatgannag aanaccaata aatgcttgat naatgaaaaa      240
nccacttttt acctgttaga accctgaggg taagagaant gatgtgactc gacttagtta      300
ccacaaacta tgatcctagc atnaattggg gcatctcaac acctcaactc cctgtgcaag      360
```


<400> 683
 cttgcccggc atgcacagac ntntttacgg acacnctact ccaagngagc ctgnanctgt 60
 ctacgggtcaa nctctaaggt tngncantgc cacanatggc atagtcccga gggcggtnan 120
 tctggantgc tctctgcaact tgaacntaaa ggcgntttca aganaggnt aatngcctgc 180
 ctcttgacaa cnaacaancc cacaccnacc tangaccctn tangcaagga ctggattctg 240
 naaatgcaat acaca 255

<210> 684
 <211> 922
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(922)
 <223> n = A,T,C or G

<400> 684
 acccttcatt tcatgtgctt ctattttctt acatctttta catgactaag ggattaatga 60
 aatcacctct tcataatcat gaccataatt tcatccaaca agtactcaag tttgggtgta 120
 gcactttatt aatgcttacg aattctctct ctctccctct ttctcttttc cttagtcctt 180
 gcacaataag gattttttgaa tgtataatat catcttaggt aagctttcat atggttttgg 240
 catatgaagc ttatgactgt cataagccat accaagcctg tggagtatgg catgattttc 300
 attacataat ccaatgaaaa tagacttatt ttaaaccctt aactttgtag ttttaatttg 360
 tatttcacta tcttgaaatt aacagctagt acttatccat cacagcagtc tcctactgac 420
 atgaagcaag ttgttgaatg cagtaganca tgaatgaaag catttaatgt tanacaaaaa 480
 tgggtgatac ccaagcattc tgaattatct gcatcaagga atgggacatg tacattagtg 540
 gcatcatttc taccaatatg tgacttgaat tgttttttta aaaaaaggan aatgantttc 600
 tcaatttgct ttaaaaaatt ttnaaaaagt tcaatggcat gctgctttgt ctggacttaa 660
 tttattaaca attnttaanc cttccttaag gacanaatct tgggtgttcag gatcnccttg 720
 aagggtctta tttttntan nattccaaac ccaaaaagggt gttttaaagt gngnggttcc 780
 ccccncaaaa atttgaccg gcttttttat atttaaaaaa ntnncnttt gngtttgaaa 840
 nctnaatacc aattaagggg gaattttacc tnccagtggg aaaaaaaaac nctngcctt 900
 naaaaaattc ccnggagnca at 922

<210> 685
 <211> 531
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(531)
 <223> n = A,T,C or G

<400> 685
 tgaggctctg taaaactgtt cctctgctag gcatacttca tattctctat attaaactca 60
 tctttaattg gcatggaaga ttcattgttc caaatctcag atgaagatcc tatattggat 120
 gcaattaagc ctggcagcgc cctcaaaaga cagtcttgct actgctagcc acagccagga 180
 cacagtaaca gtctcttcta gtgaccnag accataanaa atananatct aaagaattct 240
 gactccaaag gcattagccc attcctggta ttgccaatta tgatagaaaa aattgccaag 300
 ctctggggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360
 agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420

attacacatg tttactacaa gagatgttna taagtaaaga aggcctgata tacaatctaa 480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

<210> 686
<211> 336
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

<400> 686
ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60
tcaagaacac tacaagctat gtcctcttct canagagccc tgaantttta acatattgaa 120
agctctnatc ttgccaaana actccactta acttcaaaac acaccctcca cacacatcat 180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaatt catgcaanac 300
ctagggotta tttgagagca ttttccagtg cagatt 336

<210> 687
<211> 271
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 687
aatctgcact ggaaaatgct ctaaaataag ccctaggtct tgcattgaatt ggggttttcag 60
tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc 120
atthagatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180
tgaagttnag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc 240
tctctgagaa gaggacatag cttgtagtgt t 271

<210> 688
<211> 740
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 688
tgatgaagcg cgcgtnttac nactcactat nggggcgaan tatgggtacc gggnccccct 60
cgaagcggcc gccctttttt tntttttttg tgagagttaa aataaaatat ttgagttaa 120
tttaaagttt gagtttaatt aaaatatatg gcatatccca agttgggctt tgcanaaaga 180
acacttctca ggaactgtta gttgggtgtac caggaactca gaagggctct gttattaaat 240
atatttgaa aatgcatgga ttctctgaan atonctctgc atgtgagcaa cacttacatc 300

```

ncaaaccaaa attggcattg catacatnaa ccaatatttc ccaaacattt ctggttatgg 360
ccccccctt ttgtgtanta cttattgctg ttttttggaa ccctggggaa attacttaaa 420
atattcagct ggaaattaca ggcgttactt ttaaggganc aagaattaca gtgactccca 480
aaattgcaag tgttgattac tatttaagaa cccaagaatt tgaaagaaat tttgaaaagt 540
gaaaacngga aatnttaaat gacttctcaa attttgaaaa ctcnngnaaa catctccact 600
ttggtnccct tcctttaaaa attggctaaa aattntttnt tatnccacc ccattggaan 660
tcccccccc ctggaacaat tggattcccc tatttcttaa aaaacggccn ccccccccg 720
ggngaacncc nacnttttgn 740

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```

<210> 689
<211> 635
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(635)
<223> n = A,T,C or G

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<400> 689
actagtccag tgtggtggaa ttccattgtg ttgggattac atatactttt agcaattttt 60
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acatctccgt cttcacctct caaaacttct ttcaattctt tggctcttaa tagtaatcaa 180
cacttgcact ctggagtcac tgtaattctt gtccttttac agctacncc tttattttcca 240
gctgaatatt tttagttatt tcccagggtt ccaaaaaaca gcaataagta ctacacaaag 300
ggggtggggc ataaccagaa atgtttggga aatactggct catgtatgca atgccaaatc 360
tggtttgcn tttantgtt gctcacatgc agagtgaatc ttcaaanaat ccatgcattt 420
tccaaatata ttttaataaca gggaaacctt tganttcctg gntacaccaa ctaacagttc 480
ctgaaaaatg ttctttctgc aaaacccaac ttggggatat gccatatatt ttaattaaac 540
tcaaacttta aattaaactn caattatttt attttaaact cctcaaaaaa aaaaaaaaaa 600
agggggggcc cttccaangg ggggnccggt tcccc 635

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<210> 690
<211> 3923
<212> DNA
<213> Homo sapien

```

```

<400> 690
acagaagaaa tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agatttgtgt 60
ggctgcagcc gagggagacc aggaagatct gcatggtggg aaggacctga tgatacagag 120
gaattacaac acatatactt agtgtttcaa tgaacaccaa gataaataag tgaagagcta 180
gtccgctgtg agtctctca gtgacacagg gctggatcac catcgacggc actttctgag 240
tactcagtgc agcaaagaaa gactacagac atctcaatgg caggggtgag aaataagaaa 300
ggctgctgac tttaccatct gagggcacac atctgctgaa atggagataa ttaacatcac 360
tagaaacagc aagatgacaa tataatgtct aagtagtgac atgtttttgc acatttccag 420
cccctttaa tatccacaca cacaggaagc acaaaaggaa gcacagagat ccctgggaga 480
aatgcccggc cgccatcttg ggtcatcgat gagcctcgcc ctgtgcctgg tcccgttgt 540
gaggaagga cattagaaaa tgaattgatg tgttctttaa aggatgggca ggaaaacaga 600
tcctgttgtg gatatttatt tgaacgggat tacagatttg aaatgaagtc acaaagtgag 660
cattaccaat gagaggaaaa cagaogagaa aatcttgatg gcttcacaag acatgcaaca 720
aacaaaatgg aatactgtga tgacatgagg cagccaagct ggggaggaga taaccacggg 780
gcagagggtc aggattctgg ccctgctgcc taaactgtgc gttcataacc aaatcatttc 840
atatttctaa ccctcaaaac aaagctgttg taatatctga tctctacggt tccttctggg 900
cccaacattc tccatatatc cagccacact catttttaat atttagttcc cagatctgta 960

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ctgtgacctt	tctacactgt	agaataacat	tactcatttt	gttcaaagac	ccttcgtgtt	1020
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aacaggctgg	gaagcatctc	aagatctttc	cagggttata	cttactagca	cacagcatga	1140
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acttttaaaa	taagtgtatc	gggggggtggg	agaacagggg	agggagagca	ttaggacaaa	3780
tacctaattgc	atgtgggact	taaaacctag	atgatgggtt	gataggtgca	gcaaaccact	3840
atggcacacg	tatacctgtg	taacaaacct	acacattctg	cacatgtatc	ccagaacgta	3900
aagtaaaatt	taaaaaaaag	tga				3923

<210> 691

<211> 882

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(882)

<223> n = A,T,C or G

<400> 691

ttactcacta	tagggctcga	gcggccgctg	aattctgctg	cagtgagctg	tgattatgtc	60
cctgcactcc	agcctggatg	acagaacacg	atcatttctc	taaagacaaa	caaaaaacat	120
aaaataaaaac	tagtataaag	atagaagccc	aggggttgatt	taagtctgcg	gaaatcataa	180
accataggtc	agactttctca	ttgatgaggt	acttgtgggt	tagaatacaa	ttaggtatat	240
ttggctctaga	aaccaggatg	gaattagaga	ataaaagact	gagcaatagc	atgttatagt	300
attagaaata	ctatagaaat	aggaaaagcc	ctgattatga	ctttggagtt	ctgatccaac	360
atctgggatt	atntagatat	tttaaaggaa	aacgatgact	tttagctctc	aggatgttag	420
tttcctcaac	cataaaatga	agagcctcga	aaagatttcg	tttaccagat	tatttctgaa	480
gtcaattcca	gttctaaaat	tccatcactg	ngcactaagg	caaattgaat	tgaataaagt	540
attgggnatg	cataaaatac	tctattttta	aaaangaata	gtaattatcc	attggnaaca	600
gaagcantca	tccagncatc	tcctaccctg	ncccatgncn	tatgtagana	tgtanctcta	660
atcccttaac	aaaccgattt	tgcaaaggag	cttanccttg	gggtacttgg	tcanggcaac	720
tggtctactt	tnaagactca	tcttcactta	ctgggcacca	aatncctacc	attgcatcaa	780
actgggggtt	ccatncaagg	caaaccctgn	gaaatcttta	atcccgaat	tggcgcccaa	840
ttttgngggg	tttccnaaaa	gaatcntccc	ccccgagggg	cc		882

<210> 692

<211> 235

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(235)

<223> n = A,T,C or G

<400> 692

ccgcactngt	aangnccgcc	agngngctgn	aantccgctn	agcncggatc	cactagtcca	60
ttgatggtaa	aagggtagct	tactggnatg	tccgncgtct	ccanganata	atacncagga	120
cttctcanag	cacttaatat	gttaatatata	aactncgnga	aaaaagatnt	tcnatgaanc	180
nttcctctta	ggaggtcagg	ngagaatagt	gttaatgnca	ttaagganag	aacga	235

<210> 693

<211> 383

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 693

nttatgtaag	aaatgtcata	tatctttttat	tttcttttaaa	tcaaaataaaa	tatgactttg	60
agcatcccat	cccagcccc	atcctatcag	aatggtagga	acatcaacac	aaataattag	120
taatgcaccg	catctacatt	cccaggtctct	ctttacttct	tcagcattgc	ctaaaggcat	180

```

aatacacctt taattaatta attcagcctc ctaatgcaca ttaacaaagc ccctgctaga    240
ctctgtccat aatggnaaac ctgnatgatc cttgatatta acantttaag gaatgctcat    300
ggattggttt cagacttaaa aaattgaggg ggctgaanaa aatctaangg anaaatcatg    360
gaagcatttg cacatattac ata                                           383

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<210> 694
<211> 204
<212> DNA
<213> Homo sapien

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```

<400> 694
tctcttggct ggtcagcctg aagggtggta atgactcacc aacgctacta atccttcttc    60
actgtccctt atttttttcc ctcccaggct cataactcga ggttaaactc tcttttatac    120
aagaaccctg tctgatgaag catcatttca gaattttaag tcaacttaca aatgtgggat    180
tattcacatc tgagtacaaa ttta                                           204

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<210> 695
<211> 670
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(670)
<223> n = A,T,C or G

```

```

<400> 695
gcaccagccc aggtgctggt tcttcacttg agctccatga ccctccctgt gtgggtgggtt    60
gaacgggtgac ctccaaaaga tatgtccacc tggaacctca gaataagatc ttatttggaa    120
tagtctttgt agatgtcagt aaggtaaaga tttggagatg agaccctcct ggattagggg    180
aggccctagg tccactggca ggtgtgcttc tcagggtctg aaaggggaag acagggccac    240
ccagaggagg agacggaggc agagacaggg ccaccagag gaggagacgg aggcagagac    300
agggccaccc agaggaggag acggaggcag agacaggggc caccanagg aggagacgga    360
ggcagagaca gggccaccca gaggaggaga cggaggcaga gacagggcca cccaaaggag    420
gagacggagg cagaanacag gcccccccaa agaaganacc ggaggcanaa aacagggcca    480
cccanaggag gagacggagg canaaacagg gccaccccaa aggaggagac ggaggcaaaa    540
cagggccacc caaaaggagg aagccggaag gaaaaaacag ggcccccca aaggagggaag    600
ncggagggcn aaaaanaggg ccccccccaa agngagaaaa ccnggnaggc nanaaaaccn    660
ggggcccnnc                                           670

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<210> 696
<211> 317
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A,T,C or G

```

```

<400> 696
tgaccogttt tttctgcaaa ggagagtggg gaaggagggn tgggaagaca aaagttacat    60
gttagcaggg aagagaacag aattttatcc acccttatct ctttagtgag tgaacaaaca    120
gccactgtc atcgtggata catttcactt ttttcacatg actaaggagc tctccggagt    180

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gaagagtgag	taaatatggt	tattacgcat	tcatttgcta	agaatcatca	agaacccaaa	240
gttagagacg	tttcgtggtt	gaactttctc	cctactgtct	agtagaatta	tatggggatt	300
ctggatctgc	tggtgcc					317

<210> 697
 <211> 246
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(246)
 <223> n = A,T,C or G

<400> 697						
ctncagctct	aatcgactnc	tatnaggnat	gatggcncgt	gcngcgcgta	cgtantgctt	60
ggatcctcnn	anagcggacg	cctactacta	ctaaattcgc	ggncgcgttg	actttttttg	120
tttttttctt	tnacagagnt	ntttttgtgc	ccttggttct	tatgctcana	ctcngcaaaa	180
aanatcaaaa	gntacnnatg	aaaaacntat	nccatctnca	naaaggaggt	gnagntatta	240
ctttct						246

<210> 698
 <211> 3674
 <212> DNA
 <213> Homo sapien

<400> 698						
agaaagtttc	cttttttttt	tttaatggtg	aaaagatata	cacatattta	gaattagcca	60
gctgggctca	gttttagatta	ttccaatttt	gttggcaaca	tccagagcat	cgtaatcagg	120
agccagtcaa	acataattct	tcttctctcc	atcaggccaa	atcacggtgt	tgaccttggc	180
cacatcaatg	tcttagaact	tcttcacagc	ctgtttgatc	tggtgcttgt	tggttttaac	240
atccacaatg	aacacaagtg	tggtgtgtgc	ttctatcttc	ttcgtggtga	ctcagtggtc	300
agcggaaact	tgatgatagc	gtagtgggtc	agcttgatc	tcctgggagc	gctcttccaa	360
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ggatcgtttc	ttggtatcta	ccccagattt	caggagtgtt	ggctggatct	tagggattgt	660
gaagtcttca	tttcctgtgt	gtgagatctg	aggcatgatt	ttaaacagtg	tgagggaagg	720
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caacctacaa gctctctaata catgctcacc taaaagattc ccgggatcta ataggctcaa 1680
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cagctgctca ggtggctgca aatcattaca gccttcatcc tggggaggaa ctgggggcct 3360
ggttctgggt cagagagcag ccagtgagg gtgagagcta cagcctgtcc tgccagctgg 3420
atccccagtc ccggtcaacc agtaatcaag gctgagcaga tcaggcttcc cggagctgg 3480
cttggaagc cagccctggg gtgagttggc tcctgctgtg gtactgagac aatattgtca 3540
taaattcaat gcgcccttgt atccctttt cttttttatc tgtctacatc tataatcact 3600
atgcatacta gtctttgtta gtgtttctat tcmacttaat agagatatgt tatacttaaa 3660
aaaaaaaaa aaaa 3674

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<210> 699
<211> 2051
<212> DNA
<213> Homo sapien

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```

<220>
<221> misc_feature
<222> (1)...(2051)
<223> n = A,T,C or G

```

```

<400> 699
ggaccagggg ctgaagtga cccccagcac agcacagctg ctctataaaa acgtggccag 60
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<213> Homo sapien

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<213> Homo sapien

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<400> 701

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Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr
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Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
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gngtgccctt cccgtnannt cagctc                                     326

```

```

<210> 716
<211> 122
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(122)
<223> n=A,T,C or G

```

```

<400> 716
nntgcgtcgc ctgngcgtnt actctagatg atctgantag tcatatggat tctaatacga 60
ctcannatag ggctctagcg nggatncnga ttgctntcc ngattcantg acnccggtan 120
ca                                     122

```

```

<210> 717
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(203)
<223> n=A,T,C or G

```

```

<400> 717
cntgcatgcc tgcaggtcga ctctagagga tctactagtc atatggatcg agcggccgcc 60
cgggcagggtg tnaatgataa anatgcatca tactanccta cagaanggag agataatgtt 120
ngntggacca ngttggtttt cttgcgtgtg tgtggcagta gtaagttatt agtttttana 180
atcantaccg ccctccgcac cac                                     203

```

```

<210> 718
<211> 168
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(168)
<223> n=A,T,C or G

```

```

<400> 718
ggcagganga tcncttgagc ccnngaggtc gaggctacag tgagccanga gtgcactact 60
gtnnccgacct ccgcatncac gngtggtccg atccccgggt accganctng anttcactgg 120
antttttttt aancgtnttg antggtacna ccctcgantc cctggctg          168

```

```

<210> 719
<211> 210
<212> DNA
<213> Homo sapiens

```


<223> n=A, T, C or G

cancgctcgc	ataacacgta	ttttntgatn	aagattctna	ctgaccccatn	aantctacnt	60
ctcaagctct	tncanngtcc	agtnaangga	atgtgtatnn	gtnggggatnc	cacanaaaaa	120
aganatntcg	gncgcttcat	tantcatcct	tcttaccan	ntctctngat	ncncagtntg	180
ancntgaacg	cacactacng	gatntctcca				210

<213> Homo sapiens

<223> n=A, T, C or G

tccatcctaa	tacgactcac	tatatggctg	ccaacctgcc	atccactact	gaggaagacc	60
cgnanactta	ggggctcact	gcgagccacc	ggccacaggt	cgtatagggc	aaagcacgng	120
gaagcacccc	t					131

<213> Homo sapiens

<223> n=A, T, C or G

```

tccatcctaa tacgactcac tatagggccg ntgantnctg gcgaaaggct tacaattaag 60
naggaaaaan ganccaacaa ctaaaaaaaaa nncggnctgt ncagcttnga tgactngtcc 120
a                                                    121

```

<213> Homo sapiens

<223> n=A, T, C or G

anctggagtc gcgcgctgca gtcacattgt ggatccanaa aatcggcaca agctctcntg 60

```

gnttcntoga tatgaanaac actaatccca tgtngtntgn gtctccgtga ttcacccctc 120
gcacnggtcc ccntccnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180
agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cnccgtnaac 240
atcaag                                         246

```

```

<210> 723
<211> 160
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(160)
<223> n=A,T,C or G

```

```

<400> 723
cctccggaaa atccaantag agtaantncn ctctaattccg gggnaattgg nggggttnnat 60
acgtctctct cccccagnt aggattnana aaaggntctc cagancaaaa nctccaaagt 120
gnatcnanta gccgtncctg anatincaacg cccctacgtc 160

```

```

<210> 724
<211> 156
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(156)
<223> n=A,T,C or G

```

```

<400> 724
tnanccnata tacaccaaat tctgattcta aantcccacc caagggaaaa aagttgagaa 60
gagcctttcc acttttctac taataaaaaa atgcaccagc ccctaccann agtgnggaaa 120
acctccttag gcccttgntt ggaacaancg aaaatc 156

```

```

<210> 725
<211> 347
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(347)
<223> n=A,T,C or G

```

```

<400> 725
aganggttnt atncatgctg tactcgcgcg cctgcagtcg aactagtgg atccaaagaa 60
ttcggcacga gagacggtgc gcgatggacc gagggcccca gccgngagg cgccgccgcc 120
gagcccgcgg ncagacgccc catcagtagc gtccgcaccg ggnagccgag gntctcgccc 180
gagccgtggg cgcgcccagag gggcgggctc gcctcccgcc gtccctcgca gctctgccgg 240
gcccgagccc gcgcgctcgc cgccgccgnc ttgcgctcgc gnccgcgcgg nccggnaaac 300
gcggtcgagg tctggatgng gcanngccg cncctntcgc tgagcct 347

```

```

<210> 726

```

<211> 162
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(162)
 <223> n=A,T,C or G

<400> 726
 ttgggtgggt tgggtggggg naaatttncc catttggtg ggtttggggg ggnaaatact 60
 tcccgccctt tnggtnccca aaganacnaa gggggagtcc cttnatagag gnagngcgat 120
 ncntcncaac nacntngact ttgnccatgg ggagnaaggt gg 162

<210> 727
 <211> 120
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(120)
 <223> n=A,T,C or G

<400> 727
 gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttgtcca aagnacaggg 60
 ggggtcnctt anagngnagg gggttcctcc ccaccacttg ncttgnccat tgnngagnaag 120

<210> 728
 <211> 130
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(130)
 <223> n=A,T,C or G

<400> 728
 gacccactgc agcgtnaac ttagcttggg ccgagctcgg atccctagtc cgtgtggtgg 60
 aattccatgt gtcgagagag gggcaaatac nctccaanac ancncctca tgctcnacac 120
 atattcgcat 130

<210> 729
 <211> 182
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(182)
 <223> n=A,T,C or G

<400> 729

```

cngactgctn gcgtttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
gctggctgct tccagtcgat tanatttgtg aaaaagctga accncngccn gttaaggggg 120
annatgcaaa anatncatcc nnctgccccn taaactgntc tntccnaggg aaaaaangga 180
ag 182

```

```

<210> 730
<211> 678
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n=A,T,C or G

```

```

<400> 730
cactcncact ccggacctag gencttcacc actgctctct tctcctcct cctcctcntc 60
ctcggggctg ggggaccttc cccagtgacc atctcacttt ggctgaancc cactcggggc 120
agcctgagtt tggggctctt ggcttctca cctcctcgg cccctcctt ggcccgacc 180
aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctccctc cccctctgcc 240
acctggtact cggcatggtt gccccggga tggcgagagc tccacgtcgg gcagtgagaa 300
gcagaaagta cgctcggccc ctgggggctg ctctcagca cctcgcgcc ccaccctagc 360
tctggcccc agtgtgggca acttcagcct cagccaccc tcgcctgtgg ccgcctcgcc 420
cgctgtgccc tctcggctta gccccagtc caactcaagc tggggcactg tcacggtggg 480
catcttaag acaccctcac ccaccagcag ctaccacct gcaacctggg ctccaggcaa 540
aaaaagggtc acctggggca nctgaacct gtacctgctg tgccctctgc tgaangaat 600
gttatctgaa cctgctgccc tgggggtact gccttcccaa aaccgggtca antccacctg 660
ttggaaggna aatncccc 678

```

```

<210> 731
<211> 135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(135)
<223> n=A,T,C or G

```

```

<400> 731
gagatccgac gtcaccccct tccggcggcc caagacgctg caactcccga ggcngcccaa 60
atatcttttg aagagcgctc ccagcccaac acaatggaat tccaccacac tggnttagtg 120
gatccgagct aagcc 135

```

```

<210> 732
<211> 660
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(660)
<223> n=A,T,C or G

```

<400> 732

```

gcttggtacc gagctnggat ccctagtaac ggccgccagt gtgctggaat tcggctttct 60
tcaatcagnt nacgagctgc atggtctgct aacattgtca taattgctgg catagattac 120
tgaaaataaa gaaaaaaaat tgaagctgcc tatcaagttt tggattatc aaaaacttcc 180
tacaagttat tttacttcaa ccatgttatt acaaatatth taatgaatac tttagagact 240
ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
ttgataatta cataaattat tatggtccat tcaacttttc tagtgtttag tttatacacc 360
aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420
tccactatta ggattttatg gcttaaaacg tgatacagtt cagtatcttg atgtcaaaac 480
tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtagggg 540
cttctgaata actcagnaag gctcacttcc attatcttac tttataaaaa aatgctataa 600
gacagaatgg gccgacgtgg nggctccacc tgtatccacc tttggaggcg agnggcgaat 660

```

<210> 733

<211> 836

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(836)

<223> n=A,T,C or G

<400> 733

```

aattaatgac tttttttccg ccctgccaaag ctagtttgct taaatataat gtaaagaaat 60
tagctactca ttttctggct cacgaagggt ctaaaaatgg gaagaagtgg agatctgacc 120
ttgttagttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
tcctctataa ttgtatacaa aatcgtgagt ttttaaaaaa tgggttagag ctattgggtc 240
ctcagagtct caggcatctt agaccccaa aaagggttaag gactactgac ttaaccaatt 300
aggtttgagt ggcatggct ttgaagaaaa gcagaggaaa gatataatth ataattctgg 360
gcaacaaaaa agtggtatgt tgccagcatc ttagagtaga atcctcttaa aaggatagca 420
ctgcatatga actagtaggt tttaaaccagt gcatatthtag gcgaagtagc tcatttttct 480
gttagaattc ttttttatth gggaatgggc aagcttttac agcttttacc ttgccaatga 540
atacctggaa tttaaaaaat cttgttaggc atattgccca taaagttttt tttcctagat 600
catatattca gtaaataatg ttgtagctth atttcaatcc cccaattcat tgagggttga 660
aacaatttga atggtttgag tgtagaagct aagttatthc tgtagaggct aagggcattt 720
ataccaanat atgttagact tgnngntcct gtaaacatg ctgtanacaa taggaattac 780
tgtatatcca cattttaatt ttaacatctt ctgctttgnt gntgggttga gangga 836

```

<210> 734

<211> 694

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(694)

<223> n=A,T,C or G

<400> 734

```

nagtnctatt tncactaaac tgnagtgcc ttggatggct ttcaggatgt cctgaatcct 60
ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattagg 180
ttgagtggca ttggctttga agaaaagcag aggaaagata tattttataa ttctgggcaa 240

```

```

caaaaaagtg gatgtgtgcc agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat ttttctgtta 360
gaattctttt ttatttgga atgggcaagc ttttacagct tttaccttgc caatgaatac 420
ctggaattta aaaaatcttg ttaggcataat tgcccataaa gttttttttc ctagatcata 480
tattcagtaa atatgtttgt agctttattt caatccccc attcattgag ggttgaaaca 540
atttgaatgg tttgagtgt gaagctaagt tatttctgt gaggctaagg gcatttatac 600
caagatatgt tagacttgtg gttcctgtta accattgctg tagacaatat gaattactgt 660
atatccacat ttttaatttt aacatcattc tgctc 694

```

<210> 735

<211> 126

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(126)

<223> n=A,T,C or G

<400> 735

```

ncnttgaaac nggttgacca gacttcagga ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctctc 126

```

<210> 736

<211> 165

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(165)

<223> n=A,T,C or G

<400> 736

```

cagaagcctt taaaccggtt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
tcgtgccgaa ttcggcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

```

<210> 737

<211> 125

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(125)

<223> n=A,T,C or G

<400> 737

```

ggtagccctt ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60
cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
tctct 125

```

<210> 738
 <211> 137
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n=A,T,C or G

<400> 738
 ggagncnctt gancaggatg accgacttca ggcctgtgcg ctcaatcgtg gagaatctcg 60
 tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
 tctctctctc tctctct 137

<210> 739
 <211> 970
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(970)
 <223> n=A,T,C or G

<400> 739
 aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggctc 60
 cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120
 atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180
 tgtggggatt tccagataat ataaatatc aacatgaata ttttaaatta aggcattgaga 240
 catttttcct aactgagcat agccatgaac ctctcacgctc tgttctctctg tgtcagtttg 300
 tancactgaa tacagcagcc ctctctaaaag tccaggcagt gcacaggctc tgacatgatg 360
 aagtgaactg ttgctatggt gattttgcag ctggccaaat agtcaactgg tgaattttacc 420
 cagcaggaga tttttgcaaa aatttctctg gtgagagtga aatcaaactc ctattttgnt 480
 tctctctctc aagctgnagt taagatggat taatgagtac ttttagatta attactctg 540
 aagagaaaat gggagaaaag tgaggaaggt tgttggcaga agtcattgct ggaatccttc 600
 tgaaggaggt actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
 tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720
 tacgcataatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780
 aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840
 aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat ntttaaacca 900
 aaantgaaga agggaaaaat ntttcccent nttttntttt tttgccccct tgggattggn 960
 tttnttttcc 970

<210> 740
 <211> 739
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(739)
 <223> n=A,T,C or G

<400> 740

```

gntgtcnaaa aagcaggctg gtaccggctc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gtctctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaata gtcactggtt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc

```

<210> 741

<211> 1171

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1171)

<223> n=A,T,C or G

<400> 741

```

gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
attcgcggcc gcgtcgacgg cccttnntgc cactagtctt ttcattcttc cccccatca 120
atcagtgaac ttttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggattttcca gataatataa atattcaaca tgaatatatt aaattaaggc atgagacatt 240
tttcctaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agtttgtagc 300
actgaatata gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaccagc 420
aggagatttt tgcaaaaatt tcctgggtga gaggtaaate aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggattaa tggagtactt ttaagaatt aaattaacct 540
cttgaaagaa gaaaaaatgg gggaagaaaa aaagtggag ggaaaagggn ttggttttgg 600
gccnaaaaaa aagttccaan tttnngcntt ggggaaaaat tcccntttt ccttggnaaa 660
aggggggnaa ggttaancct tgggaacctt ttccnncct tttnggccca aaagggaac 720
ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaanggggtt naaaacctt 780
ngggcccccg ggccctctc caanaaggga aaaaaaagg cctggaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttgcca atancnccat aattgggaat tatggggggg 900
ccatgggctt ttggttttgg cnccttaacc cgcnttttaa attcaaanna aaaaaagng 960
gttttgaaaa nnaaanaaaa aaaattnaan ggncccnaaa aaaaacctg gaaaacctt 1020
ggaaaaaaat tngnnggggg gccnttttgt tgggggggtt tnaaaaaacc ccctnggggg 1080
ttttttaagc ccaaaagggg gggaggggna aaanggtnc cttntttttt ttttnngccc 1140
cccttgggga atggnntant tcanggggcc c

```

<210> 742

<211> 739

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(739)
 <223> n=A,T,C or G

<400> 742
 gntgtcnaaa aagcaggetg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
 tgccactagt tctttcattc ttcccncca tcaatcagtg aacttttttag cctactcaaa 120
 gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
 acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
 tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
 ccaggcagtg cacagggtctt gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
 tggccaaata gtactgggtt gattttaccc agcaggagat ttttgcaaaa atttcctggg 420
 tgagagtgaa atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
 aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
 gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600
 aagagactan aagacaatga agttaaactt ggcctgtctn tcatatgata gatgcttgag 660
 agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
 ctttgtttgg cncctaacc 739

<210> 743
 <211> 610
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(610)
 <223> n=A,T,C or G

<400> 743
 ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60
 taaatttttg atagacattc ccaaataatta tacctgtttt tgagaccttt aattcctggt 120
 gtcaaattgc cctatatatg gagtaataaa cacgatttaa agaaatgagg actaaaaaaa 180
 gattatatat aaccacaat aaaggcaacc tottaggcgt tgacagaaac tgacaacttt 240
 ttatctgtgg gtgcgatcca ttataagtaa cctgagcacc ttattttttt tttttaaact 300
 ctaggtagga tacccgaggc ccacaaattt ttcataagaa atattttttt tctgccttat 360
 gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420
 atgatgaagg atttggagtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480
 gctctngat cttggacagg tcaattgact tggttaatc ttctcatcca tttagnngag 540
 acagcaccac tattcacagg actattgncn gaattaccag acaatagcat agngngaaaat 600
 ataangcctt 610

<210> 744
 <211> 127
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(127)
 <223> n=A,T,C or G

<400> 744

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<210> 745
<211> 458
<212> DNA
<213> Homo sapiens
```

<400>	745						
gatatcccg	gattcgcg	cgcgtcgacg	tggcctctag	tttgtcctgg	tccaaagcag	60	
ggaagctgg	ctacgtcctg	cccaggtcag	ccttaggtta	agggctgcct	gggggaggga	120	
acttcctgg	ccttcgggtc	tctgtgcact	ggggtggctc	ctgtggccca	gaatgccttg	180	
gagaagggtc	ctactggaag	cgaagggtgca	gggcagcagg	gcctgaggcg	caggagctgg	240	
tggaggctcc	cagcacaggt	cgcgcgcccc	gtcacatcac	tgtgatgggt	ggggggactt	300	
ggggagtttc	ccccgagaat	gggagggtctc	acagtccccg	tgtgcaatg	ctgtcggtgc	360	
actgnncng	caatgtgctc	atggncaactt	gctttttctc	tgtggccccg	gccgatttat	420	
ccagcanngc	acccctcttc	tntctctcgg	anaaagcc			458	

```
<220>
<221> misc_feature
<222> (1)...(893)
<223> n=A,T,C or G
```

<210>	747
<211>	738
<212>	DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(738)

<223> n=A,T,C or G

<400> 747

```

gatatcccgga gaattcgcgga ccgcgtcnac gaagcacaga cctgngccct gctctcatgg 60
ggcagactgc catttgtcat tnattactga aggaaaggga tcctcagttt gcttgtggac 120
atttcaaatt tgaggtgaga gttggataag taagaataaa gctgctcttc aaagagatga 180
atatagaaaa agaaacaaga tacagncttg gcagtaaggc tgggaggaag gggaaaagg 240
aataaagaat gaaagagtga gaaatgtgag caggagctga acacagaaaa gttcagngac 300
agaagcanaa ggagggaaga agggaggagg gtccctttca cagaggctca cgaggatgct 360
ttatgngtgc catgcagtc atgttcagga tgtctgcttc ttanctctct acttttctaa 420
tanaaatttg gatacttact gatcctacat atgtaacagg gagagaagg gaatttcaaa 480
gcantaaatt gaaaaattgt tcacaatttc atttttttaa aaaagggagc taacagaaga 540
agaggttaat gtggttaatta taggatgnct cttgcgacac atgaatgnat ctggtatcat 600
ctgagtggga ggggagctgt cttcctgacc caaaaggatc ctttcgttan ccgnactta 660
ngtcccaaaa cctcaccacc ttggagaaat natttccttt tgggggtntc attaaancct 720
tttgncccc gcaaaagc                                     738

```

<210> 748

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 748

```

ctntgtggcg gtggctgtct catttgggtg gacttttttg gtcgtaggaa cctggtatng 60
aggctcgagag taagacgggc tattagtagt cgcacggag ttatttgtga aaacctgggt 120
agggcctctg tctccgctgc gctcgcctaa attggtatgg ctogacttgg aaacacgggt 180
ctaacacgcg ttgttagcgc ctttgctagc atgtgaagga cactggccct accaagaaag 240
attcgagtcg ctccttccgg tatcggtcac ggaggcgata tttactcttc ttactacggt 300
tacttcgaga ttgtctgtga agtttaagac tactaaaaag agtattaagc ctatcgggaa 360
ttagctagat cgacacgcta aaaccaaggg caatcggcgg aatatagag gcaccaataa 420
tagggcctac agaaggcccc agggtttagac tcacgtttta taccggccac gggagaaata 480
aaaagataaa gtatacatcg tttagcggtc ctcggaagcc ttcggcttta atgccaagga 540
gtcgaagca tcgtcggcga gtaataaact ccatcgcgcc gagactatct acgacgccct 600
ccttaanatc cgtaaattac tcccggaaag agtatattag cggctct 647

```

<210> 749

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(642)

<223> n=A,T,C or G

```

<400> 749
ctntgtggcg gtgngtgtct catttgggtg gacttttttg gtcgtaggaa cctgggtatgc 60
aggtccgcgg agcgtgggct ctgcgtcgtg atgttggggg ttggtgtggt gccgggttgtt 120
tttggttctg ttgagcgtag tgtgtttgaa ggtagcgtt cgtgtcttgc ttgtggtttg 180
gtgtttaggg cgggtgggga ggttgtttgt tagctgttgt atgtcatatt gttgggtgttg 240
ctgccctgtg ctgtttgtcc ttggttattg tgggtgttac cccgcctgtg tgggaagtgtt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggaccc gtggttgttg ttacgttgct 360
gcttttgcg tgggcggtgg cggcgcgctc gataattaga attggatacg gagtgtataa 420
tacttctagt aaatggggac ctagtgcctg acttcccga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc caccacccta aaattataca cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
tcggaatagg aacaagagaa ctaattttng ttaaaaagac tt 642

```

<210> 750

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(639)

<223> n=A,T,C or G

```

<400> 750
tttgtggcgg tgggtgtctca tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
gtatagatgc cgattgggtcc cgacgagcgt caccgataaat tcggtagttt cgcccttttt 120
agaaggcgtc agtactcgga acttcacttc atctcggtag tttacttttg cgtatatagc 180
cttctccctc gaagactagc cgtcacattc gttccctagg aatcgtttct gccctaaga 240
atccgagagc gagatccga aactagagga accttagaag agtcgtattt ccacaaggac 300
cccacagtca ttccgggaaa atccctagga ccatacgggtt aggattcccc cggaacccgg 360
agcaaagctc atgatttccc acaccgcgag agcgccctata accctatccc atttcttcgg 420
gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaactc aggtcttaag ggggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcgggagc ggttcataga cggtgtccg 639

```

<210> 751

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(637)

<223> n=A,T,C or G

<400> 751

```

cttttgtggc ggnggtgtct catttgggtg gatttttggg tcgtaggnaa cctgggtatng 60
aggcagctct gagccccccc ccccccccc ccccccnc ccccccccta ggnggttggg 120
aanacggtgg atacctaaat cgagtngtt cattaaaagt agttgattac nccctaaaat 180
aanaanaggg cttcgctcggg anaaatcggt aagganaagt cttntggca tcataanaat 240
actggctcgg gtccctaanat ntttaaggng gtcnccgagg gtnnccatac cgataanaaa 300
cgttttccta tcggcaacgg gcttacctga gggnggactt ctncgnggc ggngattnan 360

```

```

acgaanacgt agaggattnc cgtacttnt tganatcacn cgtatcatatc ttgtaagcat 420
aattntcctg aaaagcggtta taanaatacg cncgcataatt cgcttttttcg tcctagggat 480
gcttaaatgg cgatactgct atagcgggtg agcgttggtt ctcgagnaana aaagcgtgct 540
ctaatacgctc taaggnttta agnncggttg tttaaaaata nccttagaaa cctcgaggcg 600
gatactgggtt tntttttaac gaaacaaagc accccnn 637

```

```

<210> 752
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```

```

<400> 752
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgaggtc 60
ttgcgagttg ttgggtgtgtc ctgtcgttcg gtggttcctt tttgagttga gtttgcctt 120
tgaggttggt agctgctgtt cgtttgtgtt cgtgtagtgc tttgggttga gagggttatg 180
gtgggtggtta cgggtgtattg tcgcccgtgg tcgcgggggtt ggggtgggtc tcggttttgt 240
ggttcatagt agtcttctgc gttcggtggt gcgggtttgg gtgagtagtt tcgttcttgg 300
atgtcccatt gaccgcctat aatctaagta agggttagta gaaacctctc cccgatatagac 360
acaaccgtcg tccactaaag acctcgctc tgatttttaa aaggaccgga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtccgtca ttatatgtct cctcgaggga ggaagcggcg gtggcggaaa 540
atgaggcggg aagaaagacg acctctatcg gcggttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggacgcctcc ttctcggtac gtcc 644

```

```

<210> 753
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(635)
<223> n=A,T,C or G

```

```

<400> 753
ctttgtggcg gtggtgctca tttgggtgga ttttgggtcg gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccct ccgaagcaga gcccaacca aagtccaccg 120
actaccggag taaactctcg gagggtagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag ccgttaggac agcggacgga acattnaaga aagagcctat attagggagg 240
aagtaacgtt cctcttttcg agctctttaa ggggtagtcc cagaacaagg gaagaggacc 300
cgtcggctat tgcccgtcga tacgggctct cacgngagc ctagggtcga ggatagggcc 360
gctcgtaaaa ttatacgggt tccgagaaac gcttcgtag accgggtcct aaatcgctcg 420
gagtattngg agagggatcc ttcggacctt agggacagag agaggagaac ggaggttaca 480
ggaggagAAC gtntcctcnc tagttttctt tangtcgaaa aatttcttac cgataggggtt 540
cctaggggtcg gngaatttac ggttcgaaaa acggtagtnc ctaanggntg ntattngggg 600
tagtatcggg tcgtttacaa ntcgtccgtc ttntg 635

```

```

<210> 754
<211> 721

```

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(721)
 <223> n=A,T,C or G

<400> 754
 accggattng ttctgagcgt cgtgactgct aataaaaaag atggantgcc atcttttttt 60
 ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
 gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
 ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
 gttttgtagg ctttttttcc cttcttttcc ctctctcagc ttctccctgc ttctcagaan 300
 atggagttgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360
 cccctaaagc agagggagaa taaggagtgc tccccatgat ggaaaatata caaagacaag 420
 gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
 gtgtacactt tatctgtctc ttgtcttctt cccaccctc tttcccagct ctctctctgt 540
 ctctctcttg ntccctgac ctttttttct tcccantgca tacttttttn tttccctttt 600
 ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
 ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
 a 721

<210> 755
 <211> 721
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(721)
 <223> n=A,T,C or G

<400> 755
 accggattng ttctgagcgt cgtgactgct aataaaaaag atggantgcc atcttttttt 60
 ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
 gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
 ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
 gttttgtagg ctttttttcc cttcttttcc ctctctcagc ttctccctgc ttctcagaan 300
 atggagttgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360
 cccctaaagc agagggagaa taaggagtgc tccccatgat ggaaaatata caaagacaag 420
 gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
 gtgtacactt tatctgtctc ttgtcttctt cccaccctc tttcccagct ctctctctgt 540
 ctctctcttg ntccctgac ctttttttct tcccantgca tacttttttn tttccctttt 600
 ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
 ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
 a 721

<210> 756
 <211> 873
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(873)
 <223> n=A,T,C or G

<400> 756
 ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60
 ggaaactgtc agcctgtctc tttcactttg ggcaagtga agcaaagacg tccagtccta 120
 tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctgggc tgagtagagg 180
 ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240
 atgccaatga gcactcatta taacccgccc tattttatag gatttaattt tacacttcag 300
 gcttaatcag tctgaaagtt aaactgacag tgtaagtta cggaatcaat gacatttagg 360
 ctttatgact ttgtagctga atatctatgg gctatatattc cattctaaca gtgatatact 420
 gttccagaat ctcatctttt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
 cacaccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
 gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600
 ctgatgccaa cgaanaaccc aaagcgcctc cccttccaga tggaagctgc cccacactgg 660
 gctgacagca tctggagctg ctctggctca aatcccgaa tcgcacanct cctanccggg 720
 gcgtttanag atcctcnggg ccagctaccg accacttttg acaagggnc ttaggagcgat 780
 aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
 atggcncccc caaataantt gggaaaantn ggg 873

<210> 757
 <211> 782
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(782)
 <223> n=A,T,C or G

<400> 757
 ggcccctcga gggatactct agagcggccg ccgactagtg agctcgtcga cgatatcccg 60
 ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
 atctgtgaag tggagaggcg ctttgggctt cttcgttggc atcaggtgcc catacctagg 180
 gcagctgtgg aagtgtcagc gtccctccctg agaggaaactc ctgctccggg ggctcctcag 240
 tccttccgctc agtatgctgt aaagcaccca catggtaatg ggtgnggact ggtaccatga 300
 ctgntccctt aaaaggtggc cttccnaag aaaggagaat tcttggacna gggatttcac 360
 ttgnttagaa atgggaaaaa ttaccatta gaattttcgn ttccaaggcn tnaagnccta 420
 aaaggccttt gattcccgaa ccttaaccct gggcagttaa cctttcaaac gggataaacc 480
 ctgangggga aaatnaaatc ctttaaaaaa gggggggttt naaggagggc tctttggctt 540
 tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
 aacctttact taaaonaacc cttgnccccc catttggggt tgactttcan cctaattgct 660
 gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaacg ggtgccantt 720
 cccangggat tanttcccga aaatttggnn aattttntt tгнаactttt tggggttttt 780
 cc 782

<210> 758
 <211> 647
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 758

```

ntttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
gggaagagcg ccgtcgggtcc gagtacagta tggagtagta tagtcttcgc gccttctcgg 120
gcggcggggc tattctctcc aaaggcagag gtccctagtc gacctcgctc ccctagggtta 180
ggaacagccg tcgaatatatt taggttcgtc gaggtttct tccgagctct acgcctaagt 240
agctccgcga gcaaagtatc ggtcattttc ccctatccat cactccccta agtacgcctc 300
attattccgg aaggcaagag gccagcattc ctcccttagag tagagggtag gtacctccgt 360
cgcggtccgc gaaagggcag agcttcgtgt ctccctccg cagcagctta acggtctacg 420
taggcgttct cgatcttttc acgggaatcg gggccggga gggcggcgga aaacgtcgac 480
gtctcgggtc ccgtcaccgc cccgaacaac tagcggcttt ccgctttcaa ctgaggaacc 540
ccgcacccct cattagcgct tacgaaatcg gggangtgat tgcgccaatt cgttagcctt 600
cgataattat tctctattag cggtcctatc tcgcgctttc gatattat 647

```

<210> 759

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(657)

<223> n=A,T,C or G

<400> 759

```

ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
gggtctctata gaaagcctct tgtctttaga tacgggcttt ctggtccttc gttctggaag 120
tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180
gcttattcta tagttccttc gggacataag gtccggtacga tctatactgc gtgggaagct 240
gataggtttg gacttaaggc gaataagaag gaggcggcg aggtcgcgat taccgcagag 300
atattattta cggcgccgc ggtaccgcg ggtcatgcgg aaattttctg aggttcttgg 360
attcctaaga tcgctcccgt cgagtatact agcgacgaac gtaagagtgc ctcacaaga 420
accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggg aggacgagga 480
cggtaagaag taatcggaga aaggatccta gtngttacga agaagcatcg ttnagctact 540
ttgcgtacc gtttatattt agacgtgttc cgctcttctc cgtgtttana aaaaaggttt 600
attccgacgg gagacttag cgaatggagg gttccgcggg tganaatcgg ancgggg 657

```

<210> 760

<211> 644

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(644)

<223> n=A,T,C or G

<400> 760

```

ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatgna 60
ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120
tacggacgtc gtttaacccc agtagcccc gtaagaaagg actaaagcga atggaaaagt 180
cggaattcc ggccgagggg cggcgattac tgaaaggagt aagagtaaga ctattgcgat 240

```



```

acttgaggcg ttccctctta aaaggcaccc gaaacactct attaaaaaac acccgaagaa 300
gaacaactca tgcgatcggc cgtgtgcagc cgtoaatagt aaagagagcc atgaaccatg 360
ccatccttag accaattagg atgaagaaga ggaggaagat gaggaccaa ccctaccac 420
tcggaaaacc ccgcacgagc ctccgaacaa aatccgggaa ttaaaacggc ggcccacttc 480
cgcactctcg tagcgcggac cgaatagaaa accggaaaact acagctaaag ggtcctttcc 540
ggcctgttat ctaccacccc gcaatccgat cctccccccc cctcgtccaa aaaccctaac 600
ctctgcggca acattagagc agaaggagag ggcgatccct tgan 644

```

```

<210> 761
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

```

<400> 761
ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
ggcgggtact ctctgggata atcggtataa gtgttgtaaa attgggggta agagaaagtt 120
tcattataag aagtgggaagc acgagccggg gtgttttagtc gttaatatta agaccggttt 180
ttgttgtagt tatatagctt gcgcgtgggg aggcaataag aaacattgctg tttcgaggcc 240
ggatgcgggg aaccctcttc ggggtctaga gcgcgcgcat tgcaaaataa ggactactga 300
cgccgctcat aacgtactca acaatgagtc ggctgcatt aagatttcgg cgaagaaccg 360
tactgcgtct actgatagta tattgcattg atagcggcat gagctttatc acgtgtcgtt 420
ttcgggttgt aagaaggag ttaagtcgat cttcgaggaa gaagagacc caaataaaaa 480
atgactcaaa aaaacctaga agaaacacga cgaaaggaaa aagaacgta aactagtag 540
ctcttcggan gtagtcctt agtagggtaa gtctccgtg cgtactgtcc taaggtttgg 600
atagcgcggt tgaatagacg gtcacgcgctc agaaggtaaa aanccgg 647

```

```

<210> 762
<211> 628
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(628)
<223> n=A,T,C or G

```

```

<400> 762
cattgtgttg gggtcactga gcccactttt ttccagattt tttgtaaaat tgtttcgc 60
tgtgttccct ttattcgctt gtattaatat ttgcgtagtg gattaaaca atacttggtg 120
ttgactgtca gtcttagagg actgactaga agtagttttc atttggggct caggaaatac 180
ctactttata tttctagcta attaggaaag tcatttttca gttaggttgg tgttttggtt 240
caggcactcg ctagctagat gacctaacat gctacttaat ttctgagtgt ttgtgtccat 300
ccctgtagga ttgttgcggg gttaaataaa attgtgtata tttgtaaagc atttacctca 360
gtgcccagac tgtgacagag tagattatta ggcttgcctt tatttctgtg attaaattta 420
gtgtcagatt agcaacctat agctacttct aaagctgctg ctgctttctt tgtttagggt 480
taggaagaaa catgctggac agtttgccaa atgagagtta catgatgtgg cttgtgggaa 540
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<210> 763
 <211> 147
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(147)
 <223> n=A,T,C or G

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 ttttttttat gcacaccacc ttcnnggc 147

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 <211> 146
 <212> DNA
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<220>
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 <222> (1)...(146)
 <223> n=A,T,C or G

<400> 764
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 agagtttagg ggactgttag aacagagaaa ganatcatgg ggttggtttt gagtctgatg 120
 nnaactggg gccgnntgct cagtat 146

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 <211> 129
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(129)
 <223> n=A,T,C or G

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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(175)
 <223> n=A,T,C or G

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 acattctgtg ngtgatgagg tgtatatcgc anganctcta tcnccanagt actct 175

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 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(602)
 <223> n=A,T,C or G

<400> 767
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 ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180
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 ta 602

<210> 768
 <211> 671
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(671)
 <223> n=A,T,C or G

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 nggggccccn ttatnaagct tttcaggcct tcccctttcc atagcattgg tgggatacaa 480
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<210> 769

<211> 877
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(877)
 <223> n=A,T,C or G

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 ggtttgttct tcaattgggt aacccctctt ttacttaagc acaccttgaa cattccctcc 180
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 cgtgaggcac ctgctaagca ggttgacgc atcatttgaa ttcacaccac ccttttgcaa 600
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<210> 770
 <211> 874
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(874)
 <223> n=A,T,C or G

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 tgcccaattt cgaacagtga gaggaagaat taggattgaa acacatatag tggcttcaga 240
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<210> 771

<211> 156
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(156)
 <223> n=A,T,C or G

<400> 771
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 ngtttttttg aanaattcat tgggtattta ttattc 156

<210> 772
 <211> 586
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(586)
 <223> n=A,T,C or G

<400> 772
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 tccagatatg aaacttacc ccagctatgg tcttctattt gttattttaat ttctaggcca 180
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<210> 773
 <211> 2983
 <212> DNA
 <213> Homo sapiens

<400> 773
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<210> 774

<211> 3064

<212> DNA

<213> Homo sapiens

<400> 774

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<210> 775

<211> 684

<212> PRT

<213> Homo sapiens

<400> 775

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10

15

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 Ser Pro Val Phe Arg Arg Gly Gln Val Phe His Leu Arg Leu Val Leu
 35 40 45
 Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr
 50 55 60
 Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
 65 70 75 80
 Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
 85 90 95
 Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
 100 105 110
 Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
 115 120 125
 Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu
 130 135 140
 Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu
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 Asn Asp Thr Gly Cys His Tyr Val Gly Ala Ala Arg Ser Ile Lys Cys
 165 170 175
 Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys
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 Ile Ser Leu Leu Thr Glu Ser Ser Leu Lys Pro Thr Asp Arg Arg Asp
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 Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys
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 Gly Gln Gly Val Leu Ile Gly Asn Trp Thr Gly Asp Tyr Glu Gly Gly
 225 230 235 240
 Thr Ala Pro Tyr Lys Trp Thr Gly Ser Ala Pro Ile Leu Gln Gln Tyr
 245 250 255
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 260 265 270
 Gly Ile Leu Thr Thr Val Leu Arg Ala Leu Gly Ile Pro Ala Arg Ser
 275 280 285
 Val Thr Gly Phe Asp Ser Ala His Asp Thr Glu Arg Asn Leu Thr Val
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Asp Thr Tyr Val Asn Glu Asn Gly Lys Lys Ile Thr Ser Met Thr His
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 Asp Ser Val Trp Asn Phe His Val Trp Thr Asp Ala Trp Met Lys Arg
 325 330 335
 Pro Asp Leu Pro Lys Gly Tyr Asp Gly Trp Gln Ala Val Asp Ala Thr
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 Pro Gln Glu Arg Ser Gln Gly Val Phe Cys Cys Gly Pro Ser Pro Leu
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 Thr Ala Ile Arg Lys Gly Asp Ile Phe Ile Val Tyr Asp Thr Arg Phe
 370 375 380
 Val Phe Ser Glu Val Asn Gly Asp Arg Leu Ile Trp Leu Val Lys Met
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 Val Asn Gly Gln Glu Glu Leu His Val Ile Ser Met Glu Thr Thr Ser
 405 410 415
 Ile Gly Lys Asn Ile Ser Thr Lys Ala Val Gly Gln Asp Arg Arg Arg
 420 425 430
 Asp Ile Thr Tyr Glu Tyr Lys Tyr Pro Glu Gly Ser Ser Glu Glu Arg
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 Arg Arg Pro Val Lys Glu Asn Phe Leu His Met Ser Val Gln Ser Asp
 465 470 475 480
 Asp Val Leu Leu Gly Asn Ser Val Asn Phe Thr Val Ile Leu Lys Arg
 485 490 495
 Lys Thr Ala Ala Leu Gln Asn Val Asn Ile Leu Gly Ser Phe Glu Leu
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 Gln Leu Tyr Thr Gly Lys Lys Met Ala Lys Leu Cys Asp Leu Asn Lys
 515 520 525
 Thr Ser Gln Ile Gln Gly Gln Val Ser Glu Val Thr Leu Thr Leu Asp
 530 535 540
 Ser Lys Thr Tyr Ile Asn Ser Leu Ala Ile Leu Asp Asp Glu Pro Val
 545 550 555 560
 Ile Arg Gly Phe Ile Ile Ala Glu Ile Val Glu Ser Lys Glu Ile Met
 565 570 575
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 Leu Pro Asn Thr Gly Arg Ile Gly Gln Leu Leu Val Cys Asn Cys Ile

595 600 605
 Phe Lys Asn Thr Leu Ala Ile Pro Leu Thr Asp Val Lys Phe Ser Leu
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 Glu Ser Leu Gly Ile Ser Ser Leu Gln Thr Ser Asp His Gly Thr Val
 625 630 635 640
 Gln Pro Gly Glu Thr Ile Gln Ser Gln Ile Lys Cys Thr Pro Ile Lys
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<210> 776

<211> 679

<212> PRT

<213> Homo sapiens

<400> 776

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Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr
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Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
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Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
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Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
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Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
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Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu
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Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu
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 Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys
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 Asp Ser Val Trp Asn Phe His Val Trp Thr Asp Ala Trp Met Lys Arg
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<210> 777

<211> 5668

<212> DNA

<213> Homo sapiens

<400> 777

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<210> 778

<211> 1095

<212> PRT

<213> Homo sapiens

<400> 778

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25

30

Val	Asn	Phe	Ile	Gln	Ala	Asn	Phe	Lys	Lys	Arg	Glu	Cys	Val	Phe	Phe
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His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys		
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Trp Tyr Gly Glu Ile Ser Arg Asp Thr Lys Asn Trp Lys Ile Ile Leu		
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<211> 3639

<212> DNA

<213> Homo sapiens

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Gln	Ser	Gln	His	Met	Glu	Gly	Thr	Gln	Ile	Asn	Gln	Ser	Glu	Lys	Trp		
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Asn	Tyr	Lys	Lys	His	Thr	Lys	Glu	Phe	Pro	Thr	Asp	Ala	Phe	Gly	Asp		
				85					90					95			
Ile	Gln	Phe	Glu	Thr	Leu	Gly	Lys	Lys	Gly	Lys	Tyr	Ile	Arg	Leu	Ser		
			100					105					110				
Cys	Asp	Thr	Asp	Ala	Glu	Ile	Leu	Tyr	Glu	Leu	Leu	Thr	Gln	His	Trp		
		115					120					125					
His	Leu	Lys	Thr	Pro	Asn	Leu	Val	Ile	Ser	Val	Thr	Gly	Gly	Ala	Lys		
	130					135					140						
Asn	Phe	Ala	Leu	Lys	Pro	Arg	Met	Arg	Lys	Ile	Phe	Ser	Arg	Leu	Ile		
	145				150					155					160		
Tyr	Ile	Ala	Gln	Ser	Lys	Gly	Ala	Trp	Ile	Leu	Thr	Gly	Gly	Thr	His		
				165					170					175			
Tyr	Gly	Leu	Met	Lys	Tyr	Ile	Gly	Glu	Val	Val	Arg	Asp	Asn	Thr	Ile		
			180					185					190				
Ser	Arg	Ser	Ser	Glu	Glu	Asn	Ile	Val	Ala	Ile	Gly	Ile	Ala	Ala	Trp		
		195					200					205					
Gly	Met	Val	Ser	Asn	Arg	Asp	Thr	Leu	Ile	Arg	Asn	Cys	Asp	Ala	Glu		
	210					215					220						
Gly	Tyr	Phe	Leu	Ala	Gln	Tyr	Leu	Met	Asp	Asp	Phe	Thr	Arg	Asp	Pro		

225		230		235		240
Leu Tyr Ile Leu Asp	Asn Asn His Thr His	Leu Leu Leu Val Asp	Asn			
	245		250		255	
Gly Cys His Gly His	Pro Thr Val Glu Ala Lys Leu Arg	Asn Gln Leu				
	260		265		270	
Glu Lys Tyr Ile Ser	Glu Arg Thr Ile Gln Asp Ser	Asn Tyr Gly Gly				
	275		280		285	
Lys Ile Pro Ile Val	Cys Phe Ala Gln Gly Gly Gly	Lys Glu Thr Leu				
	290		295		300	
Lys Ala Ile Asn Thr	Ser Ile Lys Asn Lys Ile Pro Cys Val Val	Val				
305	310		315		320	
Glu Gly Ser Gly Gln	Ile Ala Asp Val Ile Ala Ser Leu Val	Glu Val				
	325		330		335	
Glu Asp Ala Leu Thr	Ser Ser Ala Val Lys Glu Lys Leu Val	Arg Phe				
	340		345		350	
Leu Pro Arg Thr Val	Ser Arg Leu Pro Glu Glu Glu Thr	Glu Ser Trp				
	355		360		365	
Ile Lys Trp Leu Lys	Glu Ile Leu Glu Cys Ser His Leu Leu Thr	Val				
	370		375		380	
Ile Lys Met Glu Glu	Ala Gly Asp Glu Ile Val Ser Asn Ala Ile	Ser				
385	390		395		400	
Tyr Ala Leu Tyr Lys	Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp	Asn				
	405		410		415	
Trp Asn Gly Gln Leu	Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp	Leu				
	420		425		430	
Ala Asn Asp Glu Ile	Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp					
	435		440		445	
Leu Gln Glu Val Met	Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe					
	450		455		460	
Val Arg Leu Phe Leu	Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr					
465	470		475		480	
His Asp Val Leu Thr	Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val					
	485		490		495	
Tyr Arg Asn Leu Gln	Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu					
	500		505		510	
Thr Phe Val Trp Lys	Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys					

515	520	525
Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val		
530	535	540
Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile		
545	550	555
Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg		
	565	570
Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu		
	580	585
Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu		
	595	600
Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr		
	610	615
Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu		
	625	630
Ala Trp Gly Gly Ser Asn Cys Leu Glu Leu Ala Val Glu Ala Thr Asp		
	645	650
Gln His Phe Ile Ala Gln Pro Gly Val Gln Asn Phe Leu Ser Lys Gln		
	660	665
Trp Tyr Gly Glu Ile Ser Arg Asp Thr Lys Asn Trp Lys Ile Ile Leu		
	675	680
Cys Leu Phe Ile Ile Pro Leu Val Gly Cys Gly Phe Val Ser Phe Arg		
	690	695
Lys Lys Pro Val Asp Lys His Lys Lys Leu Leu Trp Tyr Tyr Val Ala		
	710	715
Phe Phe Thr Ser Pro Phe Val Val Phe Ser Trp Asn Val Val Phe Tyr		
	725	730
Ile Ala Phe Leu Leu Leu Phe Ala Tyr Val Leu Leu Met Asp Phe His		
	740	745
Ser Val Pro His Pro Pro Glu Leu Val Leu Tyr Ser Leu Val Phe Val		
	755	760
Leu Phe Cys Asp Glu Val Arg Gln Trp Tyr Val Asn Gly Val Asn Tyr		
	770	775
Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu Phe Tyr Phe		
	785	790
Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu		

805					810					815					
Tyr	Ser	Gly	Arg	Val	Ile	Phe	Cys	Leu	Asp	Tyr	Ile	Ile	Phe	Thr	Leu
			820				825						830		
Arg	Leu	Ile	His	Ile	Phe	Thr	Val	Ser	Arg	Asn	Leu	Gly	Pro	Lys	Ile
			835				840						845		
Ile	Met	Leu	Gln	Arg	Met	Leu	Ile	Asp	Val	Phe	Phe	Phe	Leu	Phe	Leu
			850				855						860		
Phe	Ala	Xaa	Trp	Met	Val	Ala	Phe	Gly	Val	Ala	Arg	Gln	Gly	Ile	Leu
			865				870						875		
Arg	Gln	Asn	Glu	Gln	Arg	Trp	Arg	Trp	Ile	Phe	Arg	Ser	Val	Ile	Tyr
			885				890						895		
Glu	Pro	Tyr	Leu	Ala	Met	Phe	Gly	Gln	Val	Pro	Ser	Asp	Val	Asp	Gly
			900				905						910		
Thr	Thr	Tyr	Asp	Phe	Ala	His	Cys	Thr	Phe	Thr	Gly	Asn	Glu	Ser	Lys
			915				920						925		
Pro	Leu	Cys	Val	Glu	Leu	Asp	Glu	His	Asn	Leu	Pro	Arg	Phe	Pro	Glu
			930				935						940		
Trp	Ile	Thr	Ile	Pro	Leu	Val	Cys	Ile	Tyr	Met	Leu	Ser	Thr	Asn	Ile
			945				950						955		
Leu	Leu	Val	Asn	Leu	Leu	Val	Ala	Met	Phe	Gly	Tyr	Thr	Val	Gly	Thr
			965				970						975		
Val	Gln	Glu	Asn	Asn	Asp	Gln	Val	Trp	Lys	Phe	Gln	Arg	Tyr	Phe	Leu
			980				985						990		
Val	Gln	Glu	Tyr	Cys	Ser	Arg	Leu	Asn	Ile	Pro	Phe	Pro	Phe	Ile	Val
			995				1000						1005		
Phe	Ala	Tyr	Phe	Tyr	Met	Val	Val	Lys	Lys	Cys	Phe	Lys	Cys	Cys	Cys
			1010				1015						1020		
Lys	Glu	Lys	Asn	Met	Glu	Ser	Ser	Val	Cys	Cys	Phe	Lys	Asn	Glu	Asp
			1025				1030						1035		
Asn	Glu	Thr	Leu	Ala	Trp	Glu	Gly	Val	Met	Lys	Glu	Asn	Tyr	Leu	Val
			1045				1050						1055		
Lys	Ile	Asn	Thr	Lys	Ala	Asn	Asp	Thr	Ser	Glu	Glu	Met	Arg	His	Arg
			1060				1065						1070		
Phe	Arg	Gln	Leu	Asp	Thr	Lys	Leu	Asn	Asp	Leu	Lys	Gly	Leu	Leu	Lys
			1075				1080						1085		
Glu	Ile	Ala	Asn	Lys	Ile	Lys									

1090

1095

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<211> 15

<212> PRT

<213> Homo sapiens

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<210> 782

<211> 45

<212> DNA

<213> Homo sapiens

<400> 782

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<210> 783

<211> 45

<212> DNA

<213> Homo sapiens

<400> 783

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<210> 784

<211> 45

<212> DNA

<213> Homo sapiens

<400> 784

gaggccgacc aagagccagg gagccagatg gtggaggcca gcctc 45

<210> 785

<211> 45

<212> DNA

<213> Homo sapiens

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ggcctgcaca gtcttgaggc cgaccaagag ccaggaggcc agatg 45

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<211> 45

<212> DNA

<213> Homo sapiens

<400> 786

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<210> 787
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 <213> Homo sapiens

<400> 787
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<210> 788
 <211> 45
 <212> DNA
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<400> 788
 ctgtcagccg cacactgttt ccagaactcc tacaccatcg ggctg 45

<210> 789
 <211> 45
 <212> DNA
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<210> 790
 <211> 45
 <212> DNA
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<400> 790
 tcgggcgtcc tgggtgatcc gcagtgggtg ctgtcagccg cacac 45

<210> 791
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 791
 aacgaattgt tctgctcggg cgtcctggtg catccgcagt ggggtg 45

<210> 792
 <211> 45
 <212> DNA
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<400> 792
 gcactggtca tggaaaacga attgttctgc tcgggcgtcc tgggtg 45

<210> 793
 <211> 51
 <212> DNA
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<400> 793

tcgcagccct ggcaggcggc actgggtcatg gaaaacgaat tggtctgctc g 51

<210> 794
 <211> 45
 <212> DNA
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<400> 794
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<210> 795
 <211> 45
 <212> DNA
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<210> 796
 <211> 45
 <212> DNA
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<210> 797
 <211> 45
 <212> DNA
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<400> 797
 aacgacctca tgctcatcaa gttggacgaa tccgtgtccg agtct 45

<210> 798
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 798
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<210> 799
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 <212> PRT
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 5 10 15

<210> 800
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<212> PRT
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 Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu
 5 10 15

<210> 801
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 <212> PRT
 <213> Homo sapiens

<400> 801
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
 5 10 15

<210> 802
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<400> 802
 Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu
 5 10 15

<210> 803
 <211> 14
 <212> PRT
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<400> 803
 Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu
 5 10

<210> 804
 <211> 15
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<400> 804
 Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
 5 10 15

<210> 805
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 <212> PRT
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<400> 805

His Pro Gln Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser
 5 10 15

<210> 806
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 806
 Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His
 5 10 15

<210> 807
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 807
 Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val
 5 10 15

<210> 808
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 808
 Ala Leu Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val
 5 10 15

<210> 809
 <211> 17
 <212> PRT
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<400> 809
 Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe Cys
 5 10 15

Ser

<210> 810
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 810
 Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu

5 10 15

<210> 811
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 811
 Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser
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<210> 812
 <211> 15
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<400> 812
 Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser
 5 10 15

<210> 813
 <211> 15
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 <213> Homo sapiens

<400> 813
 Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 5 10 15

<210> 814
 <211> 15
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<400> 814
 Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu
 5 10 15

<210> 815
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 815
 ggaccagcat atgaggaaca gaaggaatga cactc

<210> 816
 <211> 29
 <212> DNA
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<220>
 <223> PCR primer

<400> 816
 ccgctcagag ccacccaag cttcacagg

29

<210> 817
 <211> 1959
 <212> DNA
 <213> Homo sapiens

<400> 817
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 cggagcacag acttgtctta cagtgaagc gacttggtga attttattca agcaaatttt 120
 aagaaacgag aatgtgtctt ctttaccaaa gattccaagg ccacggagaa tgtgtgcaag 180
 tgtggctatg ccagagacca gcacatggaa ggcaccaga tcaaccaag tgagaaatgg 240
 aactacaaga aacacaccaa ggaatttcct accgacgcct ttggggatat tcagtttgag 300
 aactgggga agaaaggga gtatatacgt ctgtcctgcg acacggacgc ggaaatcctt 360
 tacgagctgc tgacccagca ctggcacctg aaaacaccca acctggtcat ttctgtgacc 420
 gggggcgcca agaacttcgc cctgaagccg cgcctgcgca agatcttcag ccggtcatc 480
 tacatcgcg agtccaaagg tgcctggatt ctacgggag gcaccatta tggcctgatg 540
 aagtacatcg gggaggtggt gagagataac accatcagca ggagttcaga ggagaatatt 600
 gtggccattg gcatagcagc ttggggcatg gtctccaacc gggacaccct catcaggaat 660
 tgcgatgctg agggctattt tttagcccag taccttatgg atgacttcac aagagatcca 720
 ctgtatatcc tggacaacaa ccacacacat ttgctgctcg tggacaatgg ctgtcatgga 780
 catccactg tcgaagcaaa gctccggaat cagctagaga agtatatctc tgagcgact 840
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 aaagagactt tgaaagccat caatacctcc atcaaaaata aaattccttg tgtggtggtg 960
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 cctgaggagg agactgagag ttggatcaaa tggctcaaag aaattctcga atgttctcac 1140
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 agaccaagt ttgtccgcct ctttctggag aatggottga acctacgga gtttctcacc 1440
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 cagatcgcca agaattccta taatgatgcc ctctcacgt ttgtctggaa actggttgcg 1560
 aacttcgaa gaggcttcg gaaggaagac agaaatggcc gggacgagat ggacatagaa 1620
 ctccacgacg tgtctctat tactcggcac cccctgcaag ctctcttcac ctgggccatt 1680
 ctccagaata agaaggaaact ctccaaagtc atttgggagc agaccagggg ctgcaactctg 1740
 gcagccctgg gagccagcaa gcttctgaag actctggcca aagtgaagaa cgacatcaat 1800
 gctgctgggg agtccgagga gctggctaag gagtaogaga cccgggctgt tgagctgttc 1860
 actgagtgtt acagcagcga tgaagacttg gcagaacagc tgctggtcta ttctgtgaa 1920
 gcttgggggtg gactcgagca ccaccaccac caccactga 1959

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 <211> 652

<212> PRT

<213> Homo sapiens

<400> 818

Met Arg Asn Arg Arg Asn Asp Thr Leu Asp Ser Thr Arg Thr Leu Tyr
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Ser Ser Ala Ser Arg Ser Thr Asp Leu Ser Tyr Ser Glu Ser Asp Leu
 20 25 30

Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
 35 40 45

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
 50 55 60

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
 65 70 75 80

Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
 85 90 95

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
 100 105 110

Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
 115 120 125

His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
 130 135 140

Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
 145 150 155 160

Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
 165 170 175

Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
 180 185 190

Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
 195 200 205

Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
 210 215 220

Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
 225 230 235 240

Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn
 245 250 255

Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu
 260 265 270

Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly
 275 280 285
 Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu
 290 295 300
 Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val
 305 310 315 320
 Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val
 325 330 335
 Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe
 340 345 350
 Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp
 355 360 365
 Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val
 370 375 380
 Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser
 385 390 395 400
 Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn
 405 410 415
 Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu
 420 425 430
 Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp
 435 440 445
 Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe
 450 455 460
 Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr
 465 470 475 480
 His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val
 485 490 495
 Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu
 500 505 510
 Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys
 515 520 525
 Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val
 530 535 540
 Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile
 545 550 555 560

Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg
565 570 575

Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu
580 585 590

Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu
595 600 605

Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr
610 615 620

Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu
625 630 635 640

Ala Trp Gly Gly Leu Glu His His His His His His
645 650

<210> 819

<211> 132

<212> PRT

<213> Homo sapien

<400> 819

Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
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Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
20 25 30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
35 40 45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
50 55 60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
65 70 75 80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
85 90 95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
100 105 110
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
115 120 125
Gly Pro Pro Ala
130

<210> 820

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 820
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<210> 821
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 821
gggctcgagt caggagtttg agaccagcct ggc 33

<210> 822
<211> 675
<212> DNA
<213> Homo sapiens

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accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcatcatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgatccgg 420
gagaaatttg cccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480
agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatgtt 540
ttgctgcaaa ataaagagag cctattttac aagatggtgc aacaactggg caaggcagaa 600
gccgtgccc tcaactgaaac agcaaaacag agatgggggtt tcaccatgtt ggccaggctg 660
gtctcaaact cctga 675

<210> 823
<211> 291
<212> DNA
<213> Homo sapiens

<400> 823
atggggatcc gggagaaatt tgcccactgc accgtgctaa ccattgcaca cagattgaac 60
accattattg acagcgacaa gataatggtt ttagattcag gaagactgaa agaatatgat 120
gagccgtatg ttttgctgca aaataaagag agcctatttt acaagatggt gcaacaactg 180
ggcaaggcag aagccgctgc cctcactgaa acagcaaaac agagatgggg ttccaccatg 240
ttggccaggc tgggtctcaa ctccctcgag caccaccacc accaccactg a 291

<210> 824
<211> 1074
<212> DNA

<213> Homo sapiens

<400> 824

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atgtcagcca ttgagaggggt gtcagaggca atcgtcagca tccgaagaat ccagaccttt 60
ttgctacttg atgagatata acagcgcaac cgtcagctgc cgtcagatgg taaaaagatg 120
gtgcatgtgc aggattttac tgcttttttg gataaggcat cagagacccc aactctacaa 180
ggccttttct ttactgtcag acctggcgaa ttgttagctg tggtcggccc cgtgggagca 240
gggaagtcac cactgttaag tgccgtgctc ggggaattgg cccaagtca cgggctggtc 300
agcgtgcatg gaagaattgc ctatgtgtct cagcagccct ggggtgttctc gggaactctg 360
aggagtaata ttttattttg gaagaaatac gaaaaggaa gatatgaaaa agtcataaag 420
gcttgtgctc tgaaaaagga tttacagctg ttggaggatg gtgatctgac tgtgatagga 480
gatcggggaa ccacgctgag tggagggcag aaagcacggg taaaccttgc aagagcagtg 540
tatcaagatg ctgacatcta tctcctggac gatcctctca gtgcagtaga tgcggaagtt 600
agcagacact tgttcgaact gtgtatttgt caaatTTTgc atgagaagat cacaatttta 660
gtgactcacc agttgcagta cctcaaagct gcaagtcaga ttctgatatt gaaagatggg 720
aaaatgggtc agaaggggac ttacactgag ttcttaaaat ctggtataga ttttggctcc 780
cttttaaaga aggataatga ggaaagtga caacctccag ttccaggaac tcccacacta 840
aggaatcgta ctttctcaga gtcttcgggt tgggtctcaac aatcttctag accctccttg 900
aaagatgggt ctctggagag ccaagatata gagaatgtcc cagttacact atcagaggag 960
aaccgttctg aaggaaaagt tgggttttcag gcctataaga attacttcag agctggtgct 1020
cactggattg tcttcatttt ccttatttctc gagcaccacc accaccacca ctga 1074

```

<210> 825

<211> 224

<212> PRT

<213> Homo sapiens

<400> 825

```

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
      5                      10                      15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20                      25                      30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100                     105                     110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
      115                     120                     125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Ile Arg Glu Lys Phe Ala
      130                     135                     140

```

His Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp
 145 150 155 160
 Ser Asp Lys Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp
 165 170 175
 Glu Pro Tyr Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met
 180 185 190
 Val Gln Gln Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala
 195 200 205
 Lys Gln Arg Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser
 210 215 220

<210> 826

<211> 357

<212> PRT

<213> Homo sapiens

<400> 826

Met Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg Arg
 5 10 15
 Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg Gln
 20 25 30
 Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr Ala
 35 40 45
 Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser Phe
 50 55 60
 Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala
 65 70 75 80
 Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser
 85 90 95
 His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln
 100 105 110
 Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys
 115 120 125
 Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu
 130 135 140
 Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly

145 150 155 160
 Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn Leu
 165 170 175
 Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp Pro
 180 185 190
 Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu Cys
 195 200 205
 Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His Gln
 210 215 220
 Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp Gly
 225 230 235 240
 Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly Ile
 245 250 255
 Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln Pro
 260 265 270
 Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu Ser
 275 280 285
 Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly Ala
 290 295 300
 Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu Glu
 305 310 315 320
 Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr Phe
 325 330 335
 Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Glu His
 340 345 350
 His His His His His
 355

<210> 827

<211> 96

<212> PRT

<213> Homo sapiens

<400> 827

Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala
 5 10 15

His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp
 20 25 30

Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn
 35 40 45

Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu
 50 55 60

Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met
 65 70 75 80

Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His
 85 90 95

<210> 828

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 828

cgcccatggg gatccgggag aaatttgccc actgc

35

<210> 829

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 829

cgccctcagg gagtttgaga ccagcctggc caaca

35

<210> 830

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 830

gcattgacca tatgtcagcc attgagaggg tgtcagag

38

<210> 831

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 831

ccgctcgaga ataaggaaaa tgaagacaat ccag

34

<210> 832

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 832

gttgaattca tgcacgggcc ccaggtg

27

<210> 833

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 833

cccctcgagt cactatgggtc tgcctcttga

30

<210> 834

<211> 915

<212> DNA

<213> Homo sapiens

<400> 834

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atgcatacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180
ggcgacagag tccaacgcgt ggtcgggagc gtcocggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cgccaccgcg gatggcggac 300
gcgcttaacg ggcatacatc cggtagacgc atctcggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgcacggg 420
ccccagggtgc tggcacgctg ctccgagtggt gcttgtcctg ccttggctgc cacctctgcg 480
ggggtgcgtc tggagggggg ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540
ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600
aaagcagatg gcccttggcc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660
gcgagtgagg ttggtggctg tgccccagc tcctggcgcg ccctcgcaga ggtgactggt 720
tgctcttttg gccctcttgg ccttgcccag catgcacaag cctcagtgtc actactgtgc 780
tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaagg gtatgtctgc 840
tttggggggt ccagtccttg cctcaagggt cttatgtcac tgtgggcttc ttggttgtca 900
agaggcagac catag                                     915

```

<210> 835

<211> 304

<212> PRT

<213> Homo sapiens

<400> 835

```

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
      5                      10                      15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20                      25                      30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100                     105                     110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
      115                     120                     125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met His Gly Pro Gln Val Leu
      130                     135                     140

Ala Arg Cys Ser Glu Cys Ala Cys Pro Ala Leu Ala Ala Thr Ser Ala
      145                     150                     155                     160

Gly Val Arg Leu Glu Gly Val Asp Arg Pro Pro Thr Leu Pro Ser Gln
      165                     170                     175

Gly Ser Gly Trp Pro Cys Ser His Ser Leu Ser Gly Cys His Leu Met
      180                     185                     190

Ala Asp Gly Ala Lys Ala Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr
      195                     200                     205

Leu Phe Val Arg Arg Thr Asp Val Pro Cys Pro Ala Ala Ser Glu Val
      210                     215                     220

Gly Gly Cys Ala Pro Ser Ser Trp Arg Ala Leu Ala Glu Val Thr Gly
      225                     230                     235                     240

Cys Ser Leu Gly Pro Leu Gly Leu Ala Gln His Ala Gln Ala Ser Val
      245                     250                     255

Leu Leu Leu Cys Tyr Lys Trp Ser His Ile Gly Glu Thr Ser Ser His

```


260 265 270
 Leu Arg Ser Lys Val Tyr Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu
 275 280 285
 Lys Gly Leu Met Ser Leu Trp Ala Ser Trp Leu Ser Arg Gly Arg Pro
 290 295 300

<210> 836
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 836
 cgaagtcacg tggaggccag cctc 24

<210> 837
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 837
 cctgaccgaa ttcattaact ggcttgac 29

<210> 838
 <211> 166
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(166)
 <223> Xaa = Any Amino Acid

<400> 838
 Met Gly His His His His His Val Glu Ala Ser Leu Ser Val Arg
 1 5 10 15
 His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
 20 25 30
 Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser
 35 40 45
 Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly
 50 55 60
 Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val

65					70					75					80
Asn	Val	Ser	Val	Val	Ser	Glu	Glu	Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro
				85					90					95	
Leu	Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly	Gly	Gly	Gln	Xaa	Gln	Xaa
			100					105					110		
Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr
		115					120					125			
Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly	Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly
	130						135					140			
Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu
145					150					155					160
Lys	Thr	Val	Gln	Ala	Ser										
				165											

<210> 839
 <211> 504
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(504)
 <223> n = A,T,C or G

<400> 839																			
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aacagaccct	tgctcgctaa	cgacctcatg	ctcatcaagt	tggacgaatc	cgtgtccgag														120
tctgacacca	tccggagcat	cagcattgct	tgcagtgcc	ctaccgcggg	gaactcttgc														180
ctcgtttctg	gctgggggtct	gctggcgaa	ggcagaatgc	ctaccgtgct	gcagtgcgtg														240
aacgtgtcgg	tgggtgtctga	ggaggtctgc	agtaagctct	atgaccgcgt	gtaccacccc														300
agcatgttct	gcgcggcgcg	agggcaanac	cagaangact	cctgcaacgg	tgactctggg														360
gggcccctga	tctgcaacgg	gtacttgcag	ggccttgtgt	ctttcggaag	agccccgtgt														420
ggccaagtgt	gcgtgccagg	tgtctacacc	aacctctgca	aattcactga	gtggatagag														480
aaaaccgtcc	aggccagtta	atga																	504

<210> 840
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 840		
ctcagggttc	cggagccgcg	g
		21

<210> 841
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 841
ctatagaatt cattaccaaa aagctgggct ccagc

35

<210> 842
<211> 241
<212> PRT
<213> Homo sapiens

<400> 842
Met Gln His His His His His His Leu Arg Val Pro Glu Pro Arg Pro
1 5 10 15
Gly Glu Ala Lys Ala Glu Gly Ala Ala Pro Pro Thr Pro Ser Lys Pro
20 25 30
Leu Thr Ser Phe Leu Ile Gln Asp Ile Leu Arg Asp Gly Ala Gln Arg
35 40 45
Gln Gly Gly Arg Thr Ser Ser Gln Arg Gln Arg Asp Pro Glu Pro Glu
50 55 60
Pro Glu Pro Glu Pro Glu Gly Gly Arg Ser Arg Ala Gly Ala Gln Asn
65 70 75 80
Asp Gln Leu Ser Thr Gly Pro Arg Ala Ala Pro Glu Glu Ala Glu Thr
85 90 95
Leu Ala Glu Thr Glu Pro Glu Arg His Leu Gly Ser Tyr Leu Leu Asp
100 105 110
Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro Lys
115 120 125
Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val Ile
130 135 140
Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro Glu
145 150 155 160
Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val Lys
165 170 175
Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu Ser
180 185 190
Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu Lys
195 200 205
Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn Ser Tyr
210 215 220
Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro Ala Phe
225 230 235 240
Trp

<210> 843
<211> 729
<212> DNA
<213> Homo sapiens

<400> 843
atgcagcatc accaccatca ccacctcagg gttccggagc cgcgccccgg ggaggcgaaa 60
gcggaggggg ccgcgccgcc gaccccgctc aagccgctca cgctcttct catccaggac 120
atcctgcggg acggcgcgca gcggcaaggc ggccgcacga gcagccagag acagcgcgac 180
ccggagccgg agccagagcc agagccagag ggaggacgca gccgcgccgg ggcgcagaac 240

```

gaccagctga gcaccgggcc ccgcgccgcg ccggatgagg ccgagacgct ggcagagacc 300
gagccagaaa ggcacttggg gtcttatctg ttggactctg aaaacacttc aggcgcctt 360
ccaaggcttc cccaaacccc taagcagccg cagaagcgct cccgagctgc cttctccac 420
actcaggtga tcgagttgga gaggaagttc agccatcaga agtacctgtc ggccccctgaa 480
cgggcccacc tggccaagaa cctcaagctc acggagaccc aagtgaagat atggttccag 540
aacagacgct ataagactaa gcgaaagcag ctctcctcgg agctgggaga cttggagaag 600
cactcctttt tgccggccct gaaagaggag gccttctccc gggcctccct ggtctccgtg 660
tataacagct atccttacta cccatacctg cactgcgtgg gcagctggag cccagctttt 720
tggtaatga 729

```

<210> 844

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 844

ctactaagcg ctggagtggag ggatcag

27

<210> 845

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 845

catcgagaat tcactactct ctgactagat gtc

33

<210> 846

<211> 161

<212> PRT

<213> Homo sapiens

<400> 846

```

Met Gln His His His His His Ala Gly Val Arg Asp Gln Gly Gln
 1           5           10           15
Gly Ala Arg Trp Pro His Thr Gly Lys Arg Gly Pro Leu Leu Gln Gly
 20           25           30
Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Glu Ser Gly
 35           40           45
Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys
 50           55           60
Pro Glu Ala Val Ala Gly Phe Pro Leu Gly Ser Asp Cys Arg Glu Gly
 65           70           75           80
Gly Arg Gln Gly Cys Gly Gly Ser Asp Asp Glu Asp Asp Leu Gly Val
 85           90           95
Ala Pro Gly Leu Ala Pro Ala Trp Ala Leu Thr Gln Pro Pro Ser Gln

```

```

          100          105          110
Ser Pro Gly Pro Gln Ser Leu Pro Ser Thr Pro Ser Ser Ile Trp Pro
          115          120          125
Gln Trp Val Ile Leu Ile Thr Glu Leu Thr Ile Pro Ser Pro Ala His
          130          135          140
Gly Pro Pro Trp Leu Pro Asn Ala Leu Glu Arg Gly His Leu Val Arg
145          150          155          160
Glu

```

<210> 847
 <211> 489
 <212> DNA
 <213> Homo sapiens

```

<400> 847
atgcagcatc accaccatca ccacgctgga gtgagggatc aggggcaggg cgcgagatgg      60
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tgcttttctt ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc      180
tggtcaggt gtccagagtc tgctgctggc ttccctttgg gatcagactg cagggagggg      240
gggcggcagg gttgtggggg gagtgcgat gaggatgacc tgggggtggc tccaggcctt      300
gccctgcct gggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc      360
tccactccat cctccatctg gcctcagtgg gtcattctga tcaactgaact gaccataccc      420
agccctgcc acggccctcc atggctcccc aatgccctgg agaggggaca tctagtcaga      480
gagtagtga      489

```

<210> 848
 <211> 132
 <212> PRT
 <213> Homo sapiens

```

<400> 848
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
  1          5          10          15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
          20          25          30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
          35          40          45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
          50          55          60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
          65          70          75          80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
          85          90          95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
          100          105          110
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
          115          120          125
Gly Pro Pro Ala
          130

```

<210> 849
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 849
 ggggaattca tcacctatgt gccgcctctg c 31

<210> 850
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 850
 gggctcgagt cactcgccca cgaaatccgt gtaaaacagc 40

<210> 851
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 851
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180
 ggcgacagag tccaacgcgt ggtcgggagc gtcgcggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcatcatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catcacctat 420
 gtgcgcctc tgctgctgga agtgggggta gaggagaagt tcatgaccat ggtgctgggc 480
 attggtccag tgctgggcct ggtctgtgtc ccgctcctag gctcagccag tgaccactgg 540
 cgtggacgct atggccgcgg ccggcccttc atctgggcac tgctccttggg catcctgctg 600
 agcctctttc tcatcccaag ggccggctgg ctagcagggc tgctgtgccc ggatcccagg 660
 cccctggagc tggcactgct catcctgggc gtggggctgc tggacttctg tggccagggtg 720
 tgettcactc cactggaggc cctgctctct gacctcttcc gggacccgga ccactgtcgc 780
 caggcctact ctgtctatgc ctcatgata agtcttgggg gctgcctggg ctacctcctg 840
 cctgccattg actgggacac cagtgccttg gcccctacc tgggcaccca ggaggagtgc 900
 ctctttgggc tgctcaccct catcttcctc acctgcgtag cagccacact gctggtggct 960
 gaggaggcag cgtggggccc caccgagcca gcagaagggc tgtcgggccc ctcttgtcgc 1020
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<213> Homo sapiens

<400> 852

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Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
              35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
              50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
              65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
              85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
              100                     105                     110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
              115                     120                     125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Thr Tyr Val Pro Pro Leu
              130                     135                     140

Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr Met Val Leu Gly
              145                     150                     155                     160

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
              165                     170                     175

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
              180                     185                     190

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
              195                     200                     205

Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
              210                     215                     220

Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
              225                     230                     235                     240

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
              245                     250                     255

Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
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Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser
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Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu
 290 295 300

Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala
 305 310 315 320

Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala
 325 330 335

Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
 340 345 350

Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg
 355 360 365

Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp
 370 375 380

Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu
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<212> PRT

<213> Homo sapiens

<400> 853

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Ser Val Arg Val
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<211> 60

<212> DNA

<213> Homo sapiens

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<210> 855

<211> 10

<212> PRT

<213> Homo sapiens

<400> 855

Ala Ser Ala Cys Asp Val Ser Val Arg Val
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<210> 856
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<400> 856
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 <212> PRT
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<400> 857
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<210> 858
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<400> 858
 Ser Ala Cys Asp Val Ser Val Arg Val
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 <212> DNA
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27

<210> 860
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 860
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 5 10 15

Ala Ser Asp

<210> 861
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 861

Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr
 5 10 15

Met Val Leu

<210> 862

<211> 19

<212> PRT

<213> Homo sapiens

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Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
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Gln Leu Leu

<210> 863

<211> 57

<212> DNA

<213> Homo sapiens

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<211> 57

<212> DNA

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<223> n = A,T,C or G

<400> 864

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<210> 865

<211> 57

<212> DNA

<213> Homo sapiens

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<223> n = A,T,C or G

<400> 865

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<210> 866

<211> 9

<212> PRT

<213> Homo sapiens

<400> 866

Val Leu Gln Cys Val Asn Val Ser Val
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<210> 867

<211> 9

<212> PRT

<213> Homo sapiens

<400> 867

Arg Met Pro Thr Val Leu Gln Cys Val
1 5

<210> 868

<211> 9

<212> PRT

<213> Homo sapiens

<400> 868

Asn Leu Cys Lys Phe Thr Glu Trp Ile
1 5

<210> 869

<211> 9

<212> PRT

<213> Homo sapiens

<400> 869

Met Leu Ile Lys Leu Asp Glu Ser Val
1 5

<210> 870

<211> 9

<212> PRT

<213> Homo sapiens

<400> 870

Leu Leu Ala Asn Asp Leu Met Leu Ile
1 5

<210> 871

<211> 10
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 1 5 10

<210> 872
 <211> 10
 <212> PRT
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<400> 872
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 1 5 10

<210> 873
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 <212> PRT
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<400> 873
 Val Leu Gln Cys Val Asn Val Ser Val Val
 1 5 10

<210> 874
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<400> 874
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 1 5 10

<210> 875
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 875
 Thr Val Leu Gln Cys Val Asn Val Ser Val
 1 5 10

<210> 876
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 876
 Gly Val Leu Val His Pro Gln Trp Val
 1 5

<210> 877

<211> 9
 <212> PRT
 <213> Homo sapiens

<400> 877
 Val Leu Val His Pro Gln Trp Val Leu
 1 5

<210> 878
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 <212> DNA
 <213> Homo sapiens

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 ggagaaatgt agaagaagac gattatttgc ataaggacac gggagagacc agcatgctaa 180
 aaagacctgt gcttttgcac ttgcaccaa cagcccatgc tgatgaattt gactgccctt 240
 cagaacttca gcacacacag gaactctttc cacagtggca cttgccaatt aaaatagctg 300
 ctattatagc atctctgact tttctttaca ctctcttgag ggaagtaatt caccctttag 360
 caacttccca tcaacaatat ttttataaaa ttccaatcct ggtcatcaac aaagtcttgc 420
 caatggtttc catcactctc ttggcattgg tttacctgcc aggtgtgata gcagcaattg 480
 tccaacttca taatggaacc aagtataaga agtttccaca ttggttgat aagtggatgt 540
 taacaagaaa gcagtttggg cttctcagtt tcttttttgc tgtactgcat gcaatttata 600
 gtctgtctta cccaatgagg cgatcctaca gatacaagtt gctaaactgg gcatatcaac 660
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<210> 879
 <211> 339
 <212> PRT
 <213> Homo sapiens

<400> 879
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Lys Pro Arg Arg Asn Leu Glu Glu Asp Asp Tyr Leu His Lys Asp Thr
 20 25 30

Gly Glu Thr Ser Met Leu Lys Arg Pro Val Leu Leu His Leu His Gln
 35 40 45

Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu Leu Gln His Thr
 50 55 60

Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile
 65 70 75 80
 Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His
 85 90 95
 Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu
 100 105 110
 Val Ile Asn Lys Val Leu Pro Met Val Ser Ile Thr Leu Leu Ala Leu
 115 120 125
 Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Val Gln Leu His Asn Gly
 130 135 140
 Thr Lys Tyr Lys Lys Phe Pro His Trp Leu Asp Lys Trp Met Leu Thr
 145 150 155 160
 Arg Lys Gln Phe Gly Leu Leu Ser Phe Phe Phe Ala Val Leu His Ala
 165 170 175
 Ile Tyr Ser Leu Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu
 180 185 190
 Leu Asn Trp Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp
 195 200 205
 Ile Glu His Asp Val Trp Arg Met Glu Ile Tyr Val Ser Leu Gly Ile
 210 215 220
 Val Gly Leu Ala Ile Leu Ala Leu Leu Ala Val Thr Ser Ile Pro Ser
 225 230 235 240
 Val Ser Asp Ser Leu Thr Trp Arg Glu Phe His Tyr Ile Gln Ser Lys
 245 250 255
 Leu Gly Ile Val Ser Leu Leu Leu Gly Thr Ile His Ala Leu Ile Phe
 260 265 270
 Ala Trp Asn Lys Trp Ile Asp Ile Lys Gln Phe Val Trp Tyr Thr Pro
 275 280 285
 Pro Thr Phe Met Ile Ala Val Phe Leu Pro Ile Val Val Leu Ile Phe
 290 295 300
 Lys Ser Ile Leu Phe Leu Pro Cys Leu Arg Lys Lys Ile Leu Lys Ile
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 Arg His Gly Trp Glu Asp Val Thr Lys Ile Asn Lys Thr Glu Ile Cys
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 Ser Gln Leu

<210> 880
 <211> 2172
 <212> DNA
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 tatatatcta ttttatttta tttttttgag acagagtctc gctgtgtcac ccaggctgga 240
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 tgccctcggcc tcctgagtag ctgggactac aggcggtgcac caccacatct ggctaactct 360
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 ggtaatttat aaagaaaaga ggtttaatga ctacacagttc cgcattggctg gagaggcctc 540
 aggaaactta caatcatggt ggaaggcgaa ggggaagcaa ggcacgtctt acatgggtggc 600
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 ggccctgttg ccagggtgg agtgacgtgg catgatctca gctcactgca acctctgcct 720
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<210> 881
 <211> 2455
 <212> DNA
 <213> Homo sapiens

<400> 881
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 cttctcaaga gctaagaagg tttgctgagt attctggcat gatgtttggt gatcaaaaa 2400
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<210> 882

<211> 2455

<212> DNA

<213> Homo sapiens

<400> 882

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 ttattgcttt tgttgcaaat gccgtggcct catctgagga attctagaat tcagaggggtg 180
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 ttaaatacatt gtactgtggt tatcatttct ctgcatttat tttacccatc ttcccttgta 360
 acttgtccta ttgtctttta atttctgcct gttctttatg gctttcaact tcataaataa 420
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<210> 883
<211> 62
<212> PRT
<213> Homo sapiens
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His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
20 25 30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
35 40 45

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
50 55 60

<210> 884

<211> 135
 <212> PRT
 <213> Homo sapiens

<400> 884

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Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
              20              25              30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
              35              40              45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
              50              55              60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
              65              70              75              80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
              85              90              95

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
              100              105              110

Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
              115              120              125

Leu Leu Asn Tyr Gln Val Ser
              130              135

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<210> 885
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 885

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Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
              5              10              15

Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
              20              25              30

Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
              35              40              45

Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
              50              55              60

Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
              65              70              75

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<210> 886
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 886
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 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 887
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 887
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 888
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 888
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 5 10 15
 Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
 20 25 30
 Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly

35 40 45
 Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
 50 55 60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
 65 70 75

<210> 889
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 889
 Met Leu Leu His Ser Ser Leu Val Asn Arg Ala Arg Leu Cys Leu Lys
 5 10 15

Asn Lys Gln Ile Asn Lys Gln Thr Asn Lys Thr Glu Arg Phe Cys Cys
 20 25 30

Asn Val Gln Gly Ala Ile Cys Ser Phe Lys Lys Ile Ile Phe Gly Gln
 35 40 45

Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Lys Val
 50 55 60

Gly Gly Ser Phe Glu Val Arg Ser Leu Arg Ser Ala Trp Pro Thr Trp
 65 70 75 80

<210> 890
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 890
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro His Asn Pro
 5 10 15

Ile Thr Ser His Gln Val Ser Ser Asp Thr Trp Asp Trp Val Gly Thr
 20 25 30

Gln Ser Gln Thr Val Ser Asp Ala Ala Gly Ala Gly Asp Thr Glu Thr
 35 40 45

Thr Gln Thr Trp Cys Leu Cys His Ser Ser Gly Leu Cys Leu Ser Pro
 50 55 60

Gly Pro Pro Ser Pro Ser Met Val
 65 70

<210> 891

<211> 77
 <212> PRT
 <213> Homo sapiens

<400> 891
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
 5 10 15
 Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
 20 25 30
 Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
 35 40 45
 Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
 50 55 60
 Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
 65 70 75

<210> 892
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 892
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 893
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 893
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
65 70 75

<210> 894

<211> 2479

<212> DNA

<213> Homo sapiens

<400> 894

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<210> 895

<211> 492

<212> PRT

<213> Homo sapiens

<400> 895

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
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Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
20 25 30

Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
35 40 45

Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
50 55 60

Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
65 70 75 80

Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
85 90 95

Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
100 105 110

Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
115 120 125

Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
130 135 140

Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
145 150 155 160

Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
165 170 175

Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
180 185 190

Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
195 200 205

Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
210 215 220

Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
225 230 235 240

<400> 896
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atgacagcgg atccaccagc ttt 683

<210> 897
<211> 209
<212> PRT
<213> Homo sapiens

<400> 897
Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
1 5 10 15
Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
20 25 30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
35 40 45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
50 55 60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
65 70 75 80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
85 90 95
Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
100 105 110
Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
115 120 125
Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
130 135 140
Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
145 150 155 160
Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
165 170 175
Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
180 185 190
Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
195 200 205
Phe

<210> 898

<211> 27
 <212> PRT
 <213> Homo sapiens

<400> 898
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
 1 5 10 15
 Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg
 20 25

<210> 899
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 899
 ggatccgccg ccaccatgtc actttctagc ctgct 35

<210> 900
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 900
 gtcgactcag ctggaccaca gccgcag 27

<210> 901
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 901
 ggatccgccg ccaccatggg ctgcaggctg ctct 34

<210> 902
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 902
 gtcgactcag aaatcctttc tcttgac 27

<210> 903
 <211> 936
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...()
 <223> n = A,T,C or G

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cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
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ttcccacccg aggtcgctgt gtttgagcca tcagaagcag agatctccca caccctaaaag 480
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<210> 904
 <211> 834
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...()
 <223> n = A,T,C or G

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gacaccttct tcccagccc agaaagtcc tgtgatgtca agctggctga gaaaagcttt 720
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ctgaaagtgg ccgggttttaa tctgctcatg acgctgcggc tgtgggtccag ctga

834

<210> 905

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> variant

<222> (1)...(311)

<223> Xaa = Any amino acid

<400> 905

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Val Pro Met Glu Thr Gly Val Thr Gln Thr Pro Arg His Leu Val Met
20 25 30

Gly Met Thr Asn Lys Lys Ser Leu Lys Cys Glu Gln His Leu Gly His
35 40 45

Asn Ala Met Tyr Trp Tyr Lys Gln Ser Ala Lys Lys Pro Leu Glu Leu
50 55 60

Met Phe Val Tyr Ser Leu Glu Glu Arg Val Glu Asn Asn Ser Val Pro
65 70 75 80

Ser Arg Phe Ser Pro Glu Cys Pro Asn Ser Ser His Leu Phe Leu His
85 90 95

Leu His Thr Leu Gln Pro Glu Asp Ser Ala Leu Tyr Leu Cys Ala Ser
100 105 110

Ser Gln Asp Arg Thr Ser Ser Ser Tyr Glu Gln Tyr Phe Gly Pro Gly
115 120 125

Thr Arg Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
130 135 140

Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys
145 150 155 160

Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu
165 170 175

Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr
180 185 190

Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr
195 200 205

Cys Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro
210 215 220

Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn
225 230 235 240

Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser
245 250 255

Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr
260 265 270

Gln Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly
275 280 285

Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala
290 295 300

Met Val Lys Arg Lys Asp Phe
305 310

<210> 906

<211> 277

<212> PRT

<213> Homo sapiens

<400> 906

Met Ser Leu Ser Ser Leu Leu Lys Val Val Thr Ala Ser Leu Trp Leu
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Gly Pro Gly Ile Ala Gln Lys Ile Thr Gln Thr Gln Pro Gly Met Phe
20 25 30

Val Gln Glu Lys Glu Ala Val Thr Leu Asp Cys Thr Tyr Asp Thr Ser
35 40 45

Asp Gln Ser Tyr Gly Leu Phe Trp Tyr Lys Gln Pro Ser Ser Gly Glu
50 55 60

Met Ile Phe Leu Ile Tyr Gln Gly Ser Tyr Asp Glu Gln Asn Ala Thr
65 70 75 80

Glu Gly Arg Tyr Ser Leu Asn Phe Gln Lys Ala Arg Lys Ser Ala Asn
85 90 95

Leu Val Ile Ser Ala Ser Gln Leu Gly Asp Ser Ala Met Tyr Phe Cys
100 105 110

Ala Met Arg Glu Gly Ala Gly Gly Gly Asn Lys Leu Thr Phe Gly Thr
115 120 125

Gly Thr Gln Leu Lys Val Glu Leu Asn Ile Gln Asn Pro Asp Pro Ala
130 135 140

Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu

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<210> 907
<211> 1536
<212> DNA
<213> Homo sapiens
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<210> 908
<211> 1533
<212> DNA
<213> Homo sapiens
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<210> 909
<211> 511
<212> PRT
<213> Homo sapiens
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<400> 909
Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
          5                      10                      15

Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
          20                      25                      30

Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
          35                      40                      45

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Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
 50 55 60
 Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
 65 70 75 80
 Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
 85 90 95
 Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
 100 105 110
 Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
 115 120 125
 Phe Thr Met Cys Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn
 130 135 140
 Arg Thr Ser Pro Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln
 145 150 155 160
 Glu Ala Tyr Met Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu
 165 170 175
 Val Thr Val Ile Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp
 180 185 190
 Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly
 195 200 205
 Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val
 210 215 220
 Thr Met Val Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met
 225 230 235 240
 Ser Phe Ala Leu Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg
 245 250 255
 Gly Phe Gln Met Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile
 260 265 270
 Phe Gly Asp Leu Met Arg Phe Cys Trp Leu Met Ala Val Val Ile Leu
 275 280 285
 Gly Phe Ala Ser Ala Phe Tyr Ile Ile Phe Gln Thr Glu Asp Pro Glu
 290 295 300
 Glu Leu Gly His Phe Tyr Asp Tyr Pro Met Ala Leu Phe Ser Thr Phe
 305 310 315 320
 Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro Ala Asn Tyr Asn Val Asp
 325 330 335

Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
85 90 95

Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
100 105 110

Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
115 120 125

Phe Thr Met Cys Cys Ile
130

<210> 911

<211> 55

<212> PRT

<213> Homo sapiens

<400> 911

Ala Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro Arg
5 10 15

Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met Thr
20 25 30

Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile Gly
35 40 45

Ala Ile Ile Ile Leu Leu Val
50 55

<210> 912

<211> 39

<212> PRT

<213> Homo sapiens

<400> 912

Glu Val Pro Asp Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln
5 10 15

Thr Ile Leu Gly Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe
20 25 30

Met Val Leu Val Thr Met Val
35

<210> 913

<211> 19

<212> PRT

<213> Homo sapiens

<400> 913

Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala
 5 10 15

Leu Val Leu

<210> 914

<211> 52

<212> PRT

<213> Homo sapiens

<400> 914

Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met Leu Gly
 5 10 15

Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu Met Arg
 20 25 30

Phe Cys Trp Leu Met Ala Val Val Ile Leu Gly Phe Ala Ser Ala Phe
 35 40 45

Tyr Ile Ile Phe
 50

<210> 915

<211> 213

<212> PRT

<213> Homo sapiens

<400> 915

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 35 40 45

Ala Phe Ala Ile Ile Ala Thr Leu Leu Met Leu Asn Leu Leu Ile Ala
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Met Met Gly Asp Thr His Trp Arg Val Ala His Glu Arg Asp Glu Leu
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Trp Arg Ala Gln Ile Val Ala Thr Thr Val Met Leu Glu Arg Lys Leu
 85 90 95

Pro Arg Cys Leu Trp Pro Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly
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Leu Gly Asp Arg Trp Phe Leu Arg Val Glu Asp Arg Gln Asp Leu Asn
115 120 125

Arg Gln Arg Ile Gln Arg Tyr Ala Gln Ala Phe His Thr Arg Gly Ser
130 135 140

Glu Asp Leu Asp Lys Asp Ser Val Glu Lys Leu Glu Leu Gly Cys Pro
145 150 155 160

Phe Ser Pro His Leu Ser Leu Pro Met Pro Ser Val Ser Arg Ser Thr
165 170 175

Ser Arg Ser Ser Ala Asn Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg
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<210> 916

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 916

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<210> 917

<211> 2061

<212> DNA
<213> Homo sapiens

<400> 917

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<210> 918
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<212> DNA
<213> Homo sapiens

<400> 918

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Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile
      35                      40                      45
Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile
      50                      55                      60
Phe Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser
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Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln
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 Phe Asp Ala Cys Leu Leu Gln Met Phe Ala Ile His Ser Leu Ser Gly
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 Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
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 Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val
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 Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala
 145 150 155 160
 Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile
 165 170 175
 Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys
 180 185 190
 Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser
 195 200 205
 Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile
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 Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe
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 Gly Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro
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 Phe Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser
 260 265 270
 Pro Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val
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 <210> 921
 <211> 28
 <212> PRT
 <213> Homo sapiens

 <400> 921
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 <212> PRT
 <213> Homo sapiens
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 <212> PRT
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 <211> 37
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Val Asn Val Val Tyr
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<400> 926
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<210> 927
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<400> 927
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<210> 928
<211> 22
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<400> 928
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<210> 929
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<212> DNA
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<211> 1479

<212> DNA

<213> Homo sapiens

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<211> 1476

<212> DNA

<213> Homo sapiens

<400> 931

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 <212> PRT
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<400> 932
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 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
 85 90 95
 Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
 100 105 110
 Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
 115 120 125
 Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
 130 135 140
 Glu Asn Arg Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val
 145 150 155 160
 Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
 165 170 175
 Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
 180 185 190
 Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
 195 200 205
 Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
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 Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
 225 230 235 240
 Cys Ile Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
 245 250 255
 Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
 260 265 270
 Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
 275 280 285
 Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn
 290 295 300
 Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
 305 310 315 320
 Phe Tyr Gly Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn
 325 330 335
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
 340 345 350

Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
 355 360 365
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
 370 375 380
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
 385 390 395 400
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
 405 410 415
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
 420 425 430
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
 435 440 445
 Lys Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
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 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
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 Thr Asp Trp Ile Tyr Arg Gln Met Arg Ala Asp Gly
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 <212> PRT
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 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
 85 90 95
 Gly Ala Ala Leu
 100

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 <212> PRT
 <213> Homo sapiens

<400> 934
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 Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn Pro Ser Asn
 20 25 30
 Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp Glu Asn Arg
 35 40 45

[illegible]